No. 004

24-month Chronic and Carcinogenic Inhalation Toxicological Study of Methanol in Fischer Rats

(Vol. 2)

Tables of Average Values (1)

September 30, 1985

Mitsubishi Chemical Safety Institute, Ltd.

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Table 1: Survival Rate

(%)

Group	Gender	W26	W52	W56	W60	W64	W68	W72	W76	W80	W84	W88	W92	W96	W100	W104
Contrast Group (0 ppm)	Male	100	96	96	96	94	94	94	94	94	92	90	88	87	81	69
	Female	100	98	98	98	98	98	96	96	94	92	90	85	79	69	60
Low Level Exposure Group (10 ppm)	Male	100	100	100	98	96	96	94	92	90	88	87	83	77	73	65
	Female	100	100	100	100	100	100	100	100	98	96	96	90	85	73	63
Medium Level Exposure Group (100 ppm)	Male	100	100	100	100	100	96	96	96	90	90	90	87	85	83	81
	Female	100	100	100	100	98	98	98	98	96	92	88	85	75	75	60
High Level Exposure Group (1000 ppm)	Male	100	98	98	98	98	98	98	98	96	94	90	90	87	81	65
	Female	100	100	100	100	100	100	100	100	100	100	100	96	90	85	67

TABLE 2-M-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 0	7	14	21	28	35	42	49
0	Mean	118.15	151.45	185.05	214.94	238.61	255.26	270.56	286.40
	S.D.	6.501	9.480	11.918	12.385	15.148	13.706	14.415	15.904
	N	72	72	72	72	72	72	72	72
10	Mean	117.79	149.20	184.84	213.84	237.27	255.03	270.68	286.13
	S.D.	5.917	8.593	10.537	11.375	11.957	12.224	13.657	13.911
	N	72	72	72	72	72	72	72	72
100	Mean	117.52	150.76	185.54	210.47 *	236.26	253.67	269.22	285.07
	S.D.	6.322	9.474	12.376	12.609	13.078	13.343	14.209	15.492
	N	72	72	72	72	72	72	72	72
1000	Mean	117.14	150.52	183.51	210.84 *	235.95	253.51	267.84	285.04
	S.D.	6.870	9.478	11.488	12.236	13.096	13.154	13.755	14.145
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 2-M-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 56	63	70	77	84	91	98	105
0	Mean	298.53	309.97	319.65	329.37	337.23	343.49	348.62	354.06
	S.D.	16.221	17.145	16.651	16.570	17.093	17.528	18.260	17.651
	N	72	72	72	72	72	72	72	72
10	Mean	297.49	309.11	318.73	326.37	335.36	337.16 *	346.34	352.16
	S.D.	14.487	14.979	15.461	15.744	16.787	18.796	18.188	18.651
	N	72	72	72	72	72	72	72	72
100	Mean	297.71	308.96	317.22	325.97	334.93	341.96	346.97	353.21
	S.D.	15.582	15.781	15.871	15.060	15.618	15.673	16.337	16.542
	N	72	72	72	72	72	72	72	72
1000	Mean	297.81	311.63	320.75	330.80	338.85	346.31	346.88	359.41
	S.D.	14.618	15.572	15.646	15.230	15.256	15.255	16.669	14.776
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 2-M-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 112	119	126	133	140	147	154	161
0	Mean	359.92	365.13	369.15	373.69	378.26	381.11	385.75	393.88
	S.D.	17.956	18.650	19.182	19.884	19.452	19.496	20.303	21.871
	N	72	72	72	72	72	72	72	72
10	Mean	356.54	349.28 ***	363.71	368.21	373.54	377.91	382.27	388.82
	S.D.	18.278	16.667	18.663	19.884	20.039	20.642	20.911	22.482
	N	72	72	72	72	72	72	72	72
100	Mean	359.51	363.19	367.39	370.98	376.27	378.87	384.54	392.51
	S.D.	16.703	16.825	17.149	17.151	17.569	18.648	18.620	19.913
	N	72	72	72	72	72	72	72	72
1000	Mean	364.37	368.16	372.26	369.26	380.11	382.11	386.88	393.84
	S.D.	15.239	14.893	15.306	17.623	15.964	16.050	15.563	16.572
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, *** ; $p<0.001$

TABLE 2-M-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 168	175	182	189	196	203	210	217
0	Mean	398.07	400.10	402.55	406.64	408.18	408.24	408.46	411.31
	S.D.	23.036	23.927	24.720	23.219	23.913	23.303	23.539	23.840
	N	72	72	72	72	72	72	72	72
10	Mean	393.79	396.20	401.26	405.41	406.09	404.90	405.27	405.94
	S.D.	23.886	24.525	24.954	24.583	25.478	25.306	24.999	24.599
	N	72	72	72	72	72	72	72	72
100	Mean	397.18	399.05	402.77	406.52	407.77	406.49	407.90	408.97
	S.D.	20.452	21.796	21.422	20.309	20.825	20.614	20.554	20.427
	N	72	72	72	72	72	72	72	72
1000	Mean	400.09	400.87	405.61	408.72	410.56	408.46	409.27	407.07
	S.D.	18.432	18.012	18.071	18.680	18.907	18.532	17.931	18.764
	N	72	72	72	72	72	72	72	72

TABLE 2-M-5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 224	230	238	245	252	259	266	273
0	Mean	411.46	413.43	416.42	421.61	424.74	428.83	433.67	438.11
	S.D.	23.448	23.185	23.591	24.337	24.103	24.817	25.060	25.702
	N	72	72	72	72	72	72	72	72
10	Mean	408.13	410.34	413.66	415.73	418.79	423.58	427.13	431.09
	S.D.	24.840	25.036	24.456	25.343	25.280	25.925	26.570	26.812
	N	72	72	72	72	72	72	72	72
100	Mean	411.33	410.16	416.50	419.65	421.46	424.46	426.93	429.08 *
	S.D.	20.860	20.575	22.443	22.783	22.701	22.627	22.743	23.313
	N	72	72	72	72	72	72	72	72
1000	Mean	410.63	412.39	416.58	419.66	421.36	423.40	426.81	429.61 *
	S.D.	19.385	19.201	19.721	19.680	19.717	19.975	20.959	20.397
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 2-M-6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 280	294	301	308	315	322	329	336
0	Mean	441.00	443.26	445.43	446.66	442.62	451.12	444.73	451.48
	S.D.	24.885	26.181	26.412	27.503	26.553	26.320	25.613	26.407
	N	72	72	72	72	72	72	72	72
10	Mean	434.80	438.93	439.98	441.32	442.44	447.05	451.10	454.84
	S.D.	26.972	27.099	28.272	27.650	27.288	26.623	27.158	26.769
	N	72	72	72	72	72	72	72	72
			**	**	*				
100	Mean	434.06	431.10	433.28	436.19	439.60	448.77	452.39	455.40
	S.D.	23.080	22.484	22.831	23.620	22.741	22.963	22.393	22.469
	N	72	72	72	72	72	72	72	72
			**	**	*				
1000	Mean	434.51	432.84	434.76	436.78	441.76	449.44	451.42	453.45
	S.D.	19.811	19.481	20.241	20.040	20.018	19.343	18.690	19.212
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$

TABLE 2-M-7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 343	350	357	365	371	378	385	392
0	Mean	458.96	460.13	462.69	461.48	463.82	464.71	464.37	462.25
	S.D.	27.678	28.549	26.686	27.196	27.011	27.791	27.233	29.410
	N	72	71	70	70	50	50	50	50
10	Mean	459.97	461.26	460.47	459.38	462.21	461.33	459.29	459.27
	S.D.	26.386	27.005	27.024	26.500	27.378	27.812	28.691	28.914
	N	72	72	72	72	52	52	52	52
100	Mean	459.93	460.37	460.54	460.13	462.59	463.26	461.47	460.77
	S.D.	22.229	21.933	22.621	23.204	24.451	25.275	24.732	24.706
	N	72	72	72	72	52	52	52	52
1000	Mean	455.82	456.42	455.87	457.55	459.19	461.11	460.99	461.26
	S.D.	21.380	19.854	20.158	19.550	17.712	17.258	18.154	18.544
	N	72	71	71	71	51	51	51	51

TABLE 2-M-8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 399	406	414	420	427	434	441	448
0	Mean	463.96	464.57	469.02	476.66	480.25	482.50	483.27	484.88
	S.D.	27.473	28.426	26.894	27.692	27.171	31.837	26.495	26.141
	N	50	50	49	50	50	50	49	49
10	Mean	459.86	460.69	469.31	474.63	475.90	478.85	477.01	479.67
	S.D.	27.926	27.560	26.737	27.214	25.650	25.960	26.251	25.871
	N	51	51	51	51	51	51	50	50
100	Mean	460.88	462.02	469.91	476.63	478.80	478.75	477.46	478.95
	S.D.	24.843	24.990	24.720	24.630	24.535	24.606	24.232	24.280
	N	52	52	52	52	52	52	52	52
1000	Mean	460.82	462.72	471.98	477.04	480.64	481.54	481.53	482.32
	S.D.	18.625	17.867	19.045	18.192	18.128	17.780	17.465	17.469
	N	51	51	51	51	51	51	51	51

TABLE 2-M-9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 455	462	469	476	483	490	497	504
0	Mean	487.15	486.82	482.28	486.59	488.18	490.14	488.26	486.82
	S.D.	26.204	27.227	25.637	27.006	27.583	27.524	27.268	27.479
	N	49	49	49	49	49	49	49	49
10	Mean	480.88	480.65	479.31	478.33	480.46	481.07	479.85	479.73
	S.D.	26.325	27.112	28.381	28.234	28.653	28.747	29.982	30.126
	N	50	50	50	50	50	49	49	49
100	Mean	480.51	479.31	479.87	475.59 *	478.93	481.67	481.48	481.63
	S.D.	25.049	25.843	24.958	24.661	24.939	25.865	26.747	28.562
	N	52	52	51	50	50	50	50	50
1000	Mean	482.70	482.62	482.91	479.19	481.32	484.50	483.59	481.19
	S.D.	16.906	17.627	17.617	17.383	17.871	17.755	18.461	18.632
	N	51	51	51	51	51	51	51	51

TABLE 2-M-10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 511	518	525	532	539	546	553	560
0	Mean	487.58	486.37	488.28	487.77	487.42	485.82	485.95	484.71
	S.D.	27.997	28.080	28.960	27.578	27.883	27.750	28.713	29.910
	N	49	49	49	49	49	49	49	49
10	Mean	478.57	478.31	481.09	482.12	477.97	477.89	479.76	479.54
	S.D.	30.529	30.047	28.763	30.315	27.390	28.211	28.313	28.399
	N	49	49	48	48	47	47	47	47
100	Mean	481.48	481.04	481.77	481.74	481.38	478.00	477.94	476.83
	S.D.	28.857	30.237	32.873	33.932	33.023	30.561	29.331	30.370
	N	50	50	50	50	50	47	47	47
1000	Mean	481.62	477.95	481.40	483.01	484.68	482.81	484.24	484.05
	S.D.	18.401	19.757	19.594	19.475	19.881	20.250	20.873	22.461
	N	51	51	51	51	51	51	51	50

TABLE 2-M-11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 567	574	581	588	596	602	609	616
0	Mean	487.11	482.97	483.46	483.24	481.18	479.48	482.38	481.77
	S.D.	28.693	30.460	29.135	30.762	28.305	28.466	27.646	26.717
	N	48	48	48	48	48	48	47	47
10	Mean	478.28	477.72	479.12	480.00	478.76	475.20	476.68	475.81
	S.D.	28.654	30.856	27.210	27.774	28.283	29.868	30.725	30.024
	N	47	47	46	46	46	46	46	45
100	Mean	475.64	475.57	475.69	475.56	473.30	472.98	475.16	474.47
	S.D.	30.671	30.205	30.972	33.472	34.989	35.260	36.172	37.874
	N	47	47	47	47	47	47	47	47
1000	Mean	482.52	482.57	483.84	482.87	478.99	478.52	481.13	482.30
	S.D.	22.549	24.782	18.838	21.736	20.818	19.404	18.090	17.899
	N	50	50	49	49	48	48	48	47

TABLE 2-M-12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 623	630	637	644	651	658	665	672
0	Mean	481.30	481.37	479.92	479.20	478.12	476.43	474.20	475.20
	S.D.	26.634	25.479	26.639	26.499	27.144	27.370	29.893	28.310
	N	47	46	46	46	46	46	46	45
10	Mean	474.90	473.65	472.56	472.63	471.60	469.61	464.80	470.73
	S.D.	31.128	36.101	32.572	32.665	32.939	34.289	39.846	28.900
	N	45	45	44	43	42	42	42	40
100	Mean	475.79	478.74	471.07	472.74	471.54	470.90	468.16	471.48
	S.D.	39.843	46.213	30.838	30.700	30.632	30.110	29.471	25.466
	N	47	47	46	45	45	45	45	44
1000	Mean	480.97	482.80	481.15	481.16	478.77	477.00	476.35	477.37
	S.D.	18.634	19.500	20.357	21.077	19.531	22.897	21.576	21.962
	N	47	47	47	47	46	46	45	45

TABLE 2-M-13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 679	686	693	700	707	714	721	728
0	Mean	474.12	468.11	471.66	470.01	473.80	470.02	465.23	462.63
	S.D.	26.300	33.239	29.845	33.510	31.600	34.797	35.184	31.568
	N	44	44	42	42	40	40	39	37
10	Mean	468.80	466.16	465.82	469.21	467.03	463.20	461.25	457.31
	S.D.	29.750	30.435	34.323	29.208	31.459	27.271	28.992	30.188
	N	40	40	39	38	38	36	35	34
100	Mean	469.67	467.91	465.14	464.42	461.25	459.45	456.40	452.16
	S.D.	24.995	26.498	28.047	27.812	28.834	29.453	30.304	31.480
	N	44	44	44	43	42	42	42	42
1000	Mean	474.78	472.74	470.85	471.22	470.14	474.68	474.17	470.16
	S.D.	23.696	27.900	30.058	31.981	27.823	21.833	21.092	28.555
	N	45	45	43	42	41	37	36	35

TABLE 2-F-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 0	7	14	21	28	35	42	49
0	Mean	98.94	116.86	132.99	145.22	155.43	162.46	169.88	176.40
	S.D.	3.818	5.122	5.642	6.622	6.765	7.367	8.005	9.035
	N	72	72	72	72	72	72	72	72
			**	**			***		
10	Mean	96.74	114.08	131.56	144.13	153.15	157.27	168.70	175.56
	S.D.	4.120	5.836	6.601	7.128	7.221	8.836	8.301	8.603
	N	72	72	72	72	72	72	72	72
			**	***	*	***	**	*	
100	Mean	96.82	113.80	130.46	140.85	151.89	159.32	167.38	174.22
	S.D.	4.631	5.541	6.613	7.273	7.295	8.419	9.227	9.835
	N	72	72	72	72	72	72	72	72
			***	**	**	***			
1000	Mean	96.41	114.17	130.08	141.65	153.47	161.37	168.28	175.93
	S.D.	3.888	5.137	6.283	6.037	5.861	6.527	7.017	8.038
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 2-F-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 56	63	70	77	84	91	98	105
0	Mean	181.61	186.72	190.57	194.65	198.26	201.48	205.07	207.18
	S.D.	9.181	10.123	9.978	10.352	11.080	11.195	11.721	10.886
	N	72	72	72	72	72	72	72	72
10	Mean	179.27	185.59	189.88	193.65	198.60	200.66	203.93	206.70
	S.D.	8.556	9.302	9.453	9.301	9.873	8.987	9.553	9.264
	N	72	72	72	72	72	72	72	72
100	Mean	179.07	184.77	188.27	192.62	196.58	199.44	202.51	205.08
	S.D.	10.616	11.094	11.357	11.937	11.903	11.931	12.039	11.850
	N	72	72	72	72	72	72	72	72
1000	Mean	180.50	186.84	190.34	195.01	198.59	201.92	204.87	207.60
	S.D.	8.503	8.274	8.916	9.357	9.728	9.716	9.282	9.444
	N	72	72	72	72	72	72	72	72

TABLE 2-F-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 112	119	126	133	140	147	154	161
0	Mean	209.38	210.84	213.82	215.09	216.04	219.36	221.33	224.69
	S.D.	11.141	12.573	13.049	12.938	12.903	12.803	13.081	13.583
	N	72	72	72	72	72	72	72	72
10	Mean	208.56	208.56	210.94	212.94	215.94	218.53	220.96	222.82
	S.D.	9.986	10.188	9.887	9.825	9.766	10.471	10.499	11.030
	N	72	72	72	72	72	72	72	72
100	Mean	207.39	208.43	210.57	212.79	215.72	217.28	220.15	223.68
	S.D.	12.329	12.193	12.576	12.747	13.474	13.192	13.470	13.906
	N	72	72	72	71	72	72	72	72
1000	Mean	210.15	210.39	213.13	213.24	216.80	218.14	220.84	224.06
	S.D.	9.351	9.463	9.476	9.391	9.648	9.675	9.836	11.159
	N	72	72	72	72	72	72	72	72

TABLE 2-F-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 168	175	182	189	196	203	210	217
0	Mean	225.70	223.66	226.89	231.21	234.93	236.25	236.42	240.36
	S.D.	15.778	16.872	16.489	15.555	15.453	15.199	15.502	16.651
	N	72	72	72	72	72	72	72	72
10	Mean	223.35	222.74	225.44	229.06	233.60	234.24	234.07	236.20
	S.D.	12.901	13.839	13.209	12.049	11.991	11.619	12.340	11.958
	N	72	72	72	72	72	72	72	72
100	Mean	223.25	223.45	225.30	228.65	232.23	233.23	233.82	235.84
	S.D.	14.754	16.429	16.085	14.829	14.212	14.375	14.939	15.656
	N	72	72	72	72	72	72	72	72
1000	Mean	223.89	222.24	225.12	228.19	232.29	232.68	232.05	231.66 ***
	S.D.	11.988	13.330	12.823	11.438	11.062	10.606	11.173	11.007
	N	72	72	72	72	72	72	72	72

*** ; $p<0.001$

TABLE 2-F-5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 224	230	238	245	252	259	266	273
0	Mean	238.57	240.99	241.36	243.83	247.26	249.30	252.71	255.24
	S.D.	16.289	16.490	16.460	17.108	16.924	17.804	18.393	18.918
	N	72	72	72	72	72	72	72	72
10	Mean	236.32	238.67	240.82	243.25	245.36	246.95	249.76	250.41
	S.D.	12.874	12.488	13.158	12.937	13.244	13.639	13.757	13.989
	N	72	72	72	72	72	72	72	72
100	Mean	236.50	239.70	240.16	242.77	244.19	246.18	247.54	248.11
	S.D.	15.954	16.253	16.320	17.101	17.035	17.657	18.233	18.127
	N	72	72	72	72	72	72	72	72
1000	Mean	233.60 *	236.55	238.53	240.49	243.17	243.62 *	245.60 **	247.06 **
	S.D.	11.468	11.600	11.466	11.548	11.863	12.419	12.742	11.740
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$

TABLE 2-F-6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 280	294	301	308	315	322	329	336
0	Mean	256.44	259.18	261.44	263.00	263.72	272.61	267.39	277.73
	S.D.	19.317	20.274	21.439	22.382	22.511	24.246	22.342	22.977
	N	72	72	72	72	72	72	71	71
10	Mean	254.19	257.43	259.16	258.90	261.30	270.62	273.59	277.86
	S.D.	14.573	15.719	15.994	15.585	16.574	17.683	18.939	19.473
	N	72	72	72	72	72	72	72	72
100	Mean	251.75	251.48 *	253.52 *	255.26 *	261.75	273.40	275.42 *	280.15
	S.D.	18.451	18.528	19.195	18.941	19.781	20.706	21.922	21.915
	N	72	72	72	72	72	72	72	72
1000	Mean	250.07 *	249.39 **	250.87 ***	253.42 **	259.23	270.82	273.31	276.61
	S.D.	13.302	14.185	14.061	14.166	15.367	16.329	18.091	18.320
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 2-F-7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		343	350	357	365	371	378	385	392
		(Day)							
0	Mean	284.62	286.09	287.48	285.29	284.49	285.42	285.45	284.98
	S.D.	23.633	23.417	24.545	25.242	25.035	26.975	27.793	28.050
	N	71	71	71	71	71	51	51	51
10	Mean	284.21	284.38	283.37	281.92	282.03	281.69	281.20	282.26
	S.D.	17.996	17.756	17.965	18.891	18.705	17.981	17.730	18.289
	N	71	71	71	71	71	52	52	52
100	Mean	285.60	283.58	283.11	279.83	280.16	282.30	281.97	282.53
	S.D.	22.728	22.475	22.971	22.393	22.248	24.804	25.206	25.343
	N	72	72	72	72	72	52	52	52
1000	Mean	282.15	281.46	279.10*	277.30*	276.64*	274.58*	274.08*	275.89
	S.D.	16.529	17.255	16.815	17.481	17.739	17.013	18.128	18.783
	N	71	71	71	71	71	52	52	52

* ; $p<0.05$

TABLE 2-F-8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 399	406	414	420	427	434	441	448
0	Mean	285.37	281.84	287.95	299.92	309.36	313.43	314.44	316.17
	S.D.	27.759	28.387	29.157	28.680	29.238	29.323	29.697	30.088
	N	51	51	51	51	51	51	51	51
10	Mean	281.97	282.13	292.42	302.80	309.06	313.13	312.88	314.73
	S.D.	18.457	18.287	19.642	20.390	20.802	21.670	21.867	22.719
	N	52	52	52	52	52	52	52	52
100	Mean	282.49	284.21	293.04	302.89	307.12	311.38	312.60	315.25
	S.D.	25.875	25.703	27.124	28.280	30.683	27.810	27.225	27.909
	N	52	52	52	52	52	51	51	51
1000	Mean	275.92 *	277.71	286.52	294.01	298.82 *	301.67 *	302.94 *	304.48 *
	S.D.	19.618	20.138	21.878	22.904	22.766	22.997	22.786	22.428
	N	52	52	52	52	52	52	52	52

* ; $p<0.05$

TABLE 2-F-9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 455	462	469	476	483	490	497	504
0	Mean	312.49	314.35	316.62	320.31	325.08	329.18	329.30	326.65
	S.D.	28.784	30.291	30.767	30.872	30.973	30.752	31.296	31.948
	N	51	51	51	51	51	51	51	50
10	Mean	311.21	313.10	314.60	318.17	323.90	329.12	331.77	329.56
	S.D.	23.498	25.805	26.592	25.038	24.556	25.153	24.407	24.410
	N	52	52	52	52	52	52	52	52
100	Mean	312.28	315.35	315.92	315.86	322.49	328.41	329.14	326.60
	S.D.	28.694	29.621	29.557	29.416	28.955	29.053	29.300	31.120
	N	51	51	51	51	51	51	51	51
1000	Mean	300.15*	303.89	306.81	305.37**	311.19*	316.88*	319.04	318.57
	S.D.	24.319	25.851	26.253	25.970	25.466	25.906	26.357	26.762
	N	52	52	52	52	52	52	52	52

* ; $p<0.05$, ** ; $p<0.01$

TABLE 2-F-10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 511	518	525	532	539	546	553	560
0	Mean	325.71	325.84	327.19	327.01	325.13	323.92	324.76	326.89
	S.D.	32.465	33.290	33.098	32.384	31.896	32.313	31.745	33.312
	N	50	50	50	50	50	50	49	49
10	Mean	327.41	330.37	331.17	330.27	329.07	327.94	330.45	332.26
	S.D.	23.690	23.381	23.367	25.102	25.179	24.003	23.109	24.259
	N	52	52	52	52	52	52	51	51
100	Mean	324.36	324.74	325.68	324.64	324.62	324.93	324.62	323.28
	S.D.	30.886	31.299	31.076	31.011	32.216	30.536	30.814	33.433
	N	51	51	51	51	51	50	50	50
1000	Mean	316.46	317.64	318.80	319.75	320.18	319.39	321.39	322.75
	S.D.	27.743	27.442	28.156	28.987	28.620	28.590	29.376	29.092
	N	52	52	52	52	52	52	52	52

TABLE 2-F-11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		567	574	581	588	596	602	609	616
		(Day)							
0	Mean	327.11	322.90	321.35	322.30	322.95	324.63	325.79	323.66
	S.D.	33.276	32.920	34.091	34.822	36.573	32.733	33.713	37.437
	N	49	48	48	48	48	47	47	47
10	Mean	332.91	332.82	333.15	333.81	335.12	335.14	338.05 *	336.16
	S.D.	24.150	23.832	24.158	23.995	23.510	24.704	25.096	25.878
	N	50	50	50	50	50	50	50	50
100	Mean	323.13	320.33	320.27	321.30	320.21	318.98	323.23	323.72
	S.D.	32.185	33.547	33.567	33.715	34.666	36.485	35.469	35.030
	N	49	49	48	48	48	48	47	46
1000	Mean	322.12	321.70	323.18	324.20	323.29	323.25	324.84	326.44
	S.D.	28.511	28.726	29.184	29.832	31.077	31.147	30.702	30.107
	N	52	52	52	52	52	52	52	52

* ; $p<0.05$

TABLE 2-F-12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 623	630	637	644	651	658	665	672
0	Mean	327.74	330.05	329.91	329.40	330.44	331.54	330.92	331.89
	S.D.	32.893	32.721	33.430	34.218	35.648	30.151	30.697	31.228
	N	45	45	44	44	42	41	41	41
10	Mean	335.36	337.29	337.76	339.83	339.91	339.77	340.99	341.87
	S.D.	28.155	30.228	28.838	28.916	30.373	32.435	33.496	36.770
	N	50	49	48	47	47	47	45	44
100	Mean	325.34	328.48	328.50	329.46	329.23	328.92	329.57	333.68
	S.D.	33.270	33.590	33.407	32.718	33.287	34.610	34.847	34.490
	N	45	44	44	44	44	43	41	39
1000	Mean	327.25	330.70	329.10	330.90	330.80	332.32	331.25	332.35
	S.D.	31.637	31.309	31.202	31.049	30.475	31.437	31.408	32.613
	N	51	51	50	50	50	48	48	47

TABLE 2-F-13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight (Grams)

Level (ppm)		(Day) 679	686	693	700	707	714	721	728
0	Mean	328.88	325.77	331.62	332.49	330.09	329.12	325.85	324.63
	S.D.	31.741	35.401	27.629	25.835	27.098	28.746	28.538	26.539
	N	41	41	37	36	36	34	33	32
10	Mean	340.65	344.36 *	341.98	341.82	340.39	339.10	336.95	338.35
	S.D.	38.677	33.270	24.020	26.768	28.015	30.485	34.482	34.523
	N	43	40	39	38	38	37	37	35
100	Mean	331.32	331.72	330.09	331.23	329.63	328.49	330.44	327.56
	S.D.	33.418	35.019	35.217	35.590	37.278	37.070	36.079	36.702
	N	39	39	39	39	39	38	36	35
1000	Mean	329.80	331.33	331.97	330.88	329.18	328.53	327.26	321.29
	S.D.	32.970	34.228	32.723	33.212	34.736	34.563	35.326	33.616
	N	47	46	45	44	44	44	41	40

* ; $p<0.05$

TABLE 3-M-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 7	14	21	28	35	42	49	56
0	Mean	33.30	66.90	96.79	120.46	137.11	152.41	168.25	180.38
	S.D.	4.047	6.994	7.962	11.584	9.454	10.195	11.653	12.211
	N	72	72	72	72	72	72	72	72
10	Mean	31.41 *	67.05	96.05	119.48	137.24	152.89	168.35	179.70
	S.D.	4.978	6.880	11.224	8.536	8.986	10.388	10.875	11.709
	N	72	72	72	72	72	72	72	72
100	Mean	33.23	68.02	92.95 **	118.73	136.14	151.70	167.55	180.19
	S.D.	4.148	7.660	8.490	9.278	9.690	10.648	12.388	12.199
	N	72	72	72	72	72	72	72	72
1000	Mean	33.38	66.37	93.70 *	118.81	136.37	150.70	167.90	180.67
	S.D.	3.599	6.178	7.374	8.640	8.565	9.500	9.939	10.620
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$

TABLE 3-M-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 63	70	77	84	91	98	105	112
0	Mean	191.82	201.50	211.22	219.08	225.34	230.47	235.91	241.77
	S.D.	13.380	13.004	13.082	13.697	13.874	14.985	14.378	14.778
	N	72	72	72	72	72	72	72	72
10	Mean	191.32	200.94	208.59	217.57	219.37 *	228.55	234.37	238.75
	S.D.	12.326	12.802	12.969	13.961	16.047	15.704	16.016	15.794
	N	72	72	72	72	72	72	72	72
100	Mean	191.44	199.70	208.45	217.40	224.44	229.44	235.69	241.98
	S.D.	12.530	12.839	11.971	12.781	12.803	13.494	13.751	13.780
	N	72	72	72	72	72	72	72	72
1000	Mean	194.49	203.61	213.66	221.71	229.17	229.74	242.27 **	247.23 *
	S.D.	11.677	11.899	11.932	12.033	12.182	13.807	11.960	12.654
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$

TABLE 3-M-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 119	126	133	140	147	154	161	168
0	Mean	246.98	251.00	255.54	260.11	262.96	267.60	275.73	279.92
	S.D.	15.359	15.810	16.555	16.299	16.417	17.415	18.731	19.913
	N	72	72	72	72	72	72	72	72
10	Mean	231.49***	245.92	250.42	255.75	260.12	264.48	271.03	276.01
	S.D.	14.155	15.996	17.286	17.386	18.228	18.533	19.841	21.493
	N	72	72	72	72	72	72	72	72
100	Mean	245.67	249.87	253.46	258.75	261.35	267.02	274.99	279.66
	S.D.	14.254	14.394	14.371	14.886	16.311	16.114	17.158	17.690
	N	72	72	72	72	72	72	72	72
1000	Mean	251.02	255.12	252.12	262.97	264.97	269.74	276.70	282.95
	S.D.	12.284	12.417	15.881	13.659	13.710	13.230	14.226	15.676
	N	72	72	72	72	72	72	72	72

*** ; $p<0.001$

TABLE 3-M-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 175	182	189	196	203	210	217	224
0	Mean	281.95	284.40	288.49	290.03	290.09	290.31	293.16	293.31
	S.D.	20.899	21.780	20.386	21.066	20.451	20.684	20.939	20.630
	N	72	72	72	72	72	72	72	72
10	Mean	278.41	283.47	287.62	288.30	287.11	287.49	288.15	290.34
	S.D.	22.185	22.680	22.342	23.302	23.238	22.735	22.403	22.663
	N	72	72	72	72	72	72	72	72
100	Mean	281.53	285.24	289.00	290.25	288.97	290.38	291.45	293.81
	S.D.	19.007	18.783	17.827	18.418	18.298	18.024	17.700	18.438
	N	72	72	72	72	72	72	72	72
1000	Mean	283.73	288.47	291.57	293.42	291.32	292.13	289.93	293.49
	S.D.	15.493	15.595	16.007	16.276	16.051	15.318	15.811	16.396
	N	72	72	72	72	72	72	72	72

TABLE 3-M-5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 230	238	245	252	259	266	273	280
0	Mean	295.28	298.27	303.46	306.59	310.68	315.52	319.96	322.85
	S.D.	20.421	20.694	21.430	21.097	21.752	22.093	22.807	22.050
	N	72	72	72	72	72	72	72	72
10	Mean	292.55	295.87	297.94	301.01	305.79	309.35	313.30	317.01
	S.D.	22.861	22.249	23.073	22.950	23.625	24.188	24.368	24.505
	N	72	72	72	72	72	72	72	72
100	Mean	292.64	298.98	302.13	303.94	306.94	309.41	311.56 *	316.54
	S.D.	19.073	20.176	20.526	20.518	20.461	20.754	21.574	21.100
	N	72	72	72	72	72	72	72	72
1000	Mean	295.25	299.44	302.52	304.22	306.26	309.67	312.47 *	317.37
	S.D.	16.619	17.101	17.414	17.523	17.838	18.663	18.409	17.814
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 3-M-6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 294	301	308	315	322	329	336	343
0	Mean	325.11	327.28	328.51	324.47	332.97	326.58	333.33	340.81
	S.D.	23.291	23.576	24.762	23.904	23.699	22.936	23.799	25.272
	N	72	72	72	72	72	72	72	72
10	Mean	321.14	322.19	323.53	324.65	329.26	333.32	337.05	342.18
	S.D.	24.709	25.865	25.225	24.770	24.071	24.560	24.270	23.947
	N	72	72	72	72	72	72	72	72
		**	**	*			*		
100	Mean	313.58	315.76	318.67	322.07	331.25	334.87	337.88	342.41
	S.D.	20.525	20.783	21.566	20.761	20.827	20.231	20.292	20.005
	N	72	72	72	72	72	72	72	72
		**	**	*			*		
1000	Mean	315.70	317.62	319.64	324.62	332.30	334.28	336.31	338.68
	S.D.	17.680	18.357	18.148	18.069	17.521	16.920	17.260	19.489
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$, ** ; $p<0.01$

TABLE 3-M-7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 350	357	365	371	378	385	392	399
0	Mean	342.04	344.55	343.35	345.84	346.73	346.38	344.26	345.98
	S.D.	26.063	24.033	24.719	24.815	25.512	25.061	27.484	25.296
	N	71	70	70	50	50	50	50	50
10	Mean	343.47	342.68	341.59	344.49	343.62	341.57	341.55	342.18
	S.D.	24.564	24.654	24.026	24.855	25.274	26.163	26.668	25.649
	N	72	72	72	52	52	52	52	51
100	Mean	342.85	343.01	342.61	345.38	346.05	344.26	343.56	343.67
	S.D.	19.734	20.596	21.341	22.375	23.547	22.788	22.700	22.997
	N	72	72	72	52	52	52	52	52
1000	Mean	339.26	338.71	340.39	341.97	343.89	343.77	344.04	343.60
	S.D.	17.428	18.152	17.289	17.204	16.790	18.019	18.620	18.676
	N	71	71	71	51	51	51	51	51

TABLE 3-M-8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 406	414	420	427	434	441	448	455
0	Mean	346.58	350.99	358.68	362.27	364.51	365.21	366.82	369.09
	S.D.	26.539	24.826	25.323	24.770	29.661	24.265	23.915	24.141
	N	50	49	50	50	50	49	49	49
10	Mean	343.01	351.63	356.95	358.23	361.18	359.43	362.09	363.30
	S.D.	24.861	24.111	24.552	23.111	23.463	23.723	23.397	23.708
	N	51	51	51	51	51	50	50	50
100	Mean	344.81	352.70	359.42	361.59	361.54	360.25	361.74	363.30
	S.D.	22.819	22.674	22.471	22.473	22.644	22.426	22.475	23.162
	N	52	52	52	52	52	52	52	52
1000	Mean	345.50	354.76	359.82	363.42	364.31	364.31	365.10	365.48
	S.D.	17.883	18.678	18.125	17.949	17.563	17.348	17.454	17.236
	N	51	51	51	51	51	51	51	51

TABLE 3-M-9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 462	469	476	483	490	497	504	511
0	Mean	368.76	364.22	368.52	370.12	372.08	370.20	368.76	369.51
	S.D.	25.210	23.549	24.972	25.612	25.807	25.537	25.650	26.244
	N	49	49	49	49	49	49	49	49
10	Mean	363.07	361.73	360.75	362.88	363.57	362.35	362.23	361.08
	S.D.	24.402	25.606	25.670	26.142	26.188	27.234	27.434	27.801
	N	50	50	50	50	49	49	49	49
100	Mean	362.10	362.62	358.30 *	361.65	364.38	364.20	364.34	364.19
	S.D.	23.996	22.966	22.571	23.008	23.982	24.793	26.552	26.779
	N	52	51	50	50	50	50	50	50
1000	Mean	365.39	365.69	361.97	364.10	367.27	366.36	363.96	364.40
	S.D.	17.969	18.086	17.735	18.309	18.263	18.662	18.953	18.833
	N	51	51	51	51	51	51	51	51

* ; $p<0.05$

TABLE 3-M-10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 518	525	532	539	546	553	560	567
0	Mean	368.31	370.22	369.71	369.35	367.76	367.89	366.64	369.06
	S.D.	26.308	27.464	25.910	26.408	26.258	27.161	28.282	27.389
	N	49	49	49	49	49	49	49	48
10	Mean	360.81	363.45	364.47	360.55	360.47	362.34	362.13	360.87
	S.D.	27.244	25.826	27.412	24.802	25.668	25.741	25.951	26.328
	N	49	48	48	47	47	47	47	47
100	Mean	363.76	364.48	364.46	364.10	360.90	360.84	359.72	358.54
	S.D.	28.306	30.965	32.251	31.268	28.830	27.581	28.823	29.140
	N	50	50	50	50	47	47	47	47
1000	Mean	360.73	364.18	365.79	367.45	365.59	367.02	366.87	365.34
	S.D.	20.309	20.183	19.811	20.125	20.226	20.855	22.057	22.079
	N	51	51	51	51	51	51	50	50

TABLE 3-M-11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 574	581	588	596	602	609	616	623
0	Mean	364.92	365.41	365.19	363.13	361.43	364.53	363.91	363.44
	S.D.	29.194	27.673	29.019	26.965	27.490	26.436	25.560	25.712
	N	48	48	48	48	48	47	47	47
10	Mean	360.31	361.74	362.62	361.38	357.82	359.30	358.41	357.50
	S.D.	28.572	24.725	25.292	25.759	27.440	28.435	27.894	29.357
	N	47	46	46	46	46	46	45	45
100	Mean	358.47	358.59	358.46	356.19	355.88	358.05	357.37	358.68
	S.D.	28.408	29.408	31.932	33.620	33.859	34.832	36.565	38.757
	N	47	47	47	47	47	47	47	47
1000	Mean	365.39	366.48	365.50	361.66	361.20	363.81	364.85	363.52
	S.D.	24.320	19.418	22.027	21.398	19.932	18.355	18.057	18.719
	N	50	49	49	48	48	48	47	47

TABLE 3-M-12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 630	637	644	651	658	665	672	679
0	Mean	363.27	361.82	361.10	360.02	358.33	356.11	356.92	355.86
	S.D.	24.421	25.625	25.650	26.202	26.471	29.055	27.992	26.087
	N	46	46	46	46	46	46	45	44
10	Mean	356.25	355.17	355.33	354.23	352.24	347.42	353.66	351.73
	S.D.	34.597	31.060	31.367	32.005	33.894	39.749	27.360	28.140
	N	45	44	43	42	42	42	40	40
100	Mean	361.63	353.97	355.55	354.35	353.71	350.98	354.37	352.56
	S.D.	45.429	29.549	29.744	29.713	29.128	28.682	24.091	23.343
	N	47	46	45	45	45	45	44	44
1000	Mean	365.35	363.70	363.71	361.26	359.50	358.94	359.96	357.37
	S.D.	19.532	20.290	21.013	19.434	23.268	21.638	22.074	23.840
	N	47	47	47	46	46	45	45	45

TABLE 3-M-13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Male)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		686	693	700	707	714	721	728
		(Day)						
0	Mean	349.85	353.59	351.94	356.16	352.38	347.43	344.69
	S.D.	33.527	30.093	34.223	31.572	34.790	34.685	31.468
	N	44	42	42	40	40	39	37
10	Mean	349.09	349.13	352.37	350.20	346.31	344.34	340.76
	S.D.	29.752	32.765	28.352	31.011	25.912	27.632	29.431
	N	40	39	38	38	36	35	34
100	Mean	350.80	348.03	347.17	344.35	342.55	339.50	335.26
	S.D.	24.900	26.394	26.299	27.209	27.940	28.658	29.705
	N	44	44	43	42	42	42	42
1000	Mean	355.33	353.63	353.66	352.44	356.76	356.31	352.20
	S.D.	28.168	29.212	31.807	27.918	22.414	21.755	28.921
	N	45	43	42	41	37	36	35

TABLE 3-F-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 7	14	21	28	35	42	49	56
0	Mean	17.92	34.05	46.27	56.49	63.52	70.93	77.45	82.67
	S.D.	2.716	3.723	4.602	4.840	5.428	6.375	7.561	7.458
	N	72	72	72	72	72	72	72	72
10	Mean	17.34	34.82	47.40	56.41	60.54 **	71.96	78.82	82.53
	S.D.	3.325	4.102	4.940	5.003	7.536	6.243	6.716	6.592
	N	72	72	72	72	72	72	72	72
100	Mean	16.98	33.64	44.03 **	55.07	62.50	70.56	77.41	82.25
	S.D.	2.993	4.211	4.840	5.167	5.922	6.706	7.248	8.041
	N	72	72	72	72	72	72	72	72
1000	Mean	17.76	33.67	45.24	57.06	64.96	71.87	79.52	84.09
	S.D.	2.639	4.097	4.329	4.585	5.458	5.834	6.941	7.519
	N	72	72	72	72	72	72	72	72

** ; $p<0.01$

TABLE 3-F-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 63	70	77	84	91	98	105	112
0	Mean	87.78	91.63	95.70	99.31	102.54	106.13	108.23	110.43
	S.D.	8.694	8.930	9.013	10.114	10.028	10.785	9.908	10.120
	N	72	72	72	72	72	72	72	72
10	Mean	88.85	93.14	96.91	101.86	103.92	107.20	109.97	111.82
	S.D.	7.418	7.636	7.549	8.254	7.343	7.932	7.753	8.548
	N	72	72	72	72	72	72	72	72
100	Mean	87.95	91.46	95.80	99.77	102.62	105.69	108.26	110.57
	S.D.	8.436	8.780	9.531	9.325	9.345	9.547	9.362	9.880
	N	72	72	72	72	72	72	72	72
1000	Mean	90.43 *	93.93	98.59 *	102.18	105.51	108.46	111.19	113.74 *
	S.D.	7.177	7.947	8.432	8.714	8.922	8.376	8.423	8.270
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 3-F-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 119	126	133	140	147	154	161	168
0	Mean	111.90	114.88	116.15	117.10	120.41	122.38	125.75	126.76
	S.D.	11.495	11.645	11.835	11.616	11.561	11.932	12.382	14.634
	N	72	72	72	72	72	72	72	72
10	Mean	111.83	114.20	116.20	119.20	121.79	124.22	126.08	126.61
	S.D.	8.468	8.373	8.206	8.200	9.023	8.920	9.427	11.126
	N	72	72	72	72	72	72	72	72
100	Mean	111.62	113.75	115.92	118.90	120.46	123.33	126.86	126.43
	S.D.	9.612	10.012	10.270	10.954	10.834	11.145	11.455	12.490
	N	72	72	71	72	72	72	72	72
1000	Mean	113.98	116.72	116.83	120.39	121.73	124.43	127.64	127.48
	S.D.	8.409	8.657	8.234	8.478	8.597	8.803	10.012	10.910
	N	72	72	72	72	72	72	72	72

TABLE 3-F-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 175	182	189	196	203	210	217	224
0	Mean	124.72	127.95	132.27	135.99	137.31	137.48	141.42	139.62
	S.D.	15.723	15.413	14.468	14.401	14.196	14.332	15.479	15.048
	N	72	72	72	72	72	72	72	72
10	Mean	126.01	128.71	132.32	136.87	137.50	137.33	139.46	139.58
	S.D.	12.384	12.128	10.620	10.568	10.008	10.954	10.327	11.292
	N	72	72	72	72	72	72	72	72
100	Mean	126.63	128.48	131.83	135.41	136.42	137.00	139.03	139.69
	S.D.	14.191	13.900	12.658	12.080	12.071	12.744	13.420	13.615
	N	72	72	72	72	72	72	72	72
1000	Mean	125.83	128.70	131.78	135.88	136.27	135.64	135.25 **	137.19
	S.D.	12.152	11.857	10.194	10.041	9.488	10.152	10.022	10.389
	N	72	72	72	72	72	72	72	72

** ; $p<0.01$

TABLE 3-F-5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 230	238	245	252	259	266	273	280
0	Mean	142.05	142.42	144.89	148.32	150.36	153.77	156.30	157.50
	S.D.	15.213	15.293	15.972	15.880	16.643	17.339	17.881	18.391
	N	72	72	72	72	72	72	72	72
10	Mean	141.93	144.08	146.51	148.63	150.21	153.03	153.67	157.45
	S.D.	11.098	11.514	11.377	11.565	12.055	12.263	12.372	13.037
	N	72	72	72	72	72	72	72	72
100	Mean	142.88	143.34	145.95	147.37	149.36	150.72	151.29	154.93
	S.D.	14.061	14.098	14.907	14.816	15.348	16.201	15.990	16.278
	N	72	72	72	72	72	72	72	72
1000	Mean	140.14	142.12	144.08	146.76	147.21	149.19	150.65 *	153.66
	S.D.	10.557	10.297	10.602	10.819	11.389	11.832	10.643	12.118
	N	72	72	72	72	72	72	72	72

* ; $p<0.05$

TABLE 3-F-6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		294	301	308	315	322	329	336	343
		(Day)							
0	Mean	160.23	162.49	164.06	164.78	173.67	168.50	178.84	185.73
	S.D.	19.522	20.572	21.562	21.573	23.537	21.402	21.901	22.637
	N	72	72	72	72	72	71	71	71
10	Mean	160.70	162.42	162.16	164.56	173.88	176.85 *	181.12	187.51
	S.D.	14.024	14.323	13.999	15.042	16.193	17.464	18.172	16.143
	N	72	72	72	72	72	72	72	71
100	Mean	154.67	156.70	158.44	164.93	176.58	178.61 **	183.33	188.78
	S.D.	16.274	17.045	16.698	17.616	18.782	19.674	19.621	20.332
	N	72	72	72	72	72	72	72	72
1000	Mean	152.98 **	154.46 **	157.01 *	162.82	174.41	176.90 *	180.20	185.73
	S.D.	12.892	12.848	12.944	14.075	15.209	16.940	17.169	15.154
	N	72	72	72	72	72	72	72	71

* ; $p<0.05$, ** ; $p<0.01$

TABLE 3-F-7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 350	357	365	371	378	385	392	399
0	Mean	187.20	188.60	186.40	185.60	186.08	186.12	185.64	186.04
	S.D.	22.297	23.575	24.285	24.016	25.731	26.284	27.143	26.548
	N	71	71	71	71	51	51	51	51
10	Mean	187.68	186.67	185.23	185.34	185.06	184.56	185.63	185.33
	S.D.	16.021	16.158	17.111	16.806	16.451	16.363	16.879	16.974
	N	71	71	71	71	52	52	52	52
100	Mean	186.76	186.30	183.01	183.34	185.45	185.13	185.69	185.65
	S.D.	20.107	20.617	20.358	19.867	21.949	22.267	22.536	22.891
	N	72	72	72	72	52	52	52	52
1000	Mean	185.04	182.67	180.87	180.21	178.30	177.79	179.60	179.63
	S.D.	15.986	15.485	16.228	16.498	15.812	16.925	17.739	18.531
	N	71	71	71	71	52	52	52	52

TABLE 3-F-8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 406	414	420	427	434	441	448	455
0	Mean	182.50	188.61	200.58	210.02	214.09	215.10	216.84	213.15
	S.D.	27.181	28.018	27.425	27.957	27.992	28.228	28.682	27.624
	N	51	51	51	51	51	51	51	51
10	Mean	185.50	195.78	206.16	212.42	216.49	216.25	218.10	214.58
	S.D.	16.880	18.063	18.733	19.231	20.110	20.380	21.172	21.879
	N	52	52	52	52	52	52	52	52
100	Mean	187.37	196.19	206.05	210.27	214.50	215.71	218.36	215.40
	S.D.	22.816	24.223	25.297	27.879	24.662	24.039	24.686	25.397
	N	52	52	52	52	51	51	51	51
1000	Mean	181.43	190.24	197.72	202.53	205.39	206.66	208.20	203.86
	S.D.	18.851	20.337	21.269	21.125	21.443	21.244	20.791	22.476
	N	52	52	52	52	52	52	52	52

TABLE 3-F-9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		462	469	476	483	490	497	504	511
		(Day)							
0	Mean	215.01	217.28	220.97	225.74	229.84	229.96	227.36	226.43
	S.D.	29.261	29.819	29.829	29.860	29.495	30.076	30.700	31.177
	N	51	51	51	51	51	51	50	50
10	Mean	216.47	217.97	221.53	227.26	232.49	235.14	232.93	230.77
	S.D.	24.306	25.132	23.532	23.017	23.521	22.588	22.704	21.960
	N	52	52	52	52	52	52	52	52
100	Mean	218.46	219.04	218.98	225.61	231.53	232.25	229.72	227.47
	S.D.	26.404	26.380	26.230	25.698	25.818	26.163	27.980	27.794
	N	51	51	51	51	51	51	51	51
1000	Mean	207.60	210.53	209.09 *	214.91 *	220.60	222.76	222.28	220.18
	S.D.	24.198	24.843	24.433	23.800	24.168	24.963	25.361	26.344
	N	52	52	52	52	52	52	52	52

* ; $p<0.05$

TABLE 3-F-10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		518	525	532	539	546	553	560	567
		(Day)							
0	Mean	226.55	227.90	227.72	225.84	224.64	225.50	227.64	227.86
	S.D.	31.975	31.906	31.195	30.716	31.343	30.772	32.225	32.233
	N	50	50	50	50	50	49	49	49
10	Mean	233.73	234.53	233.63	232.44	231.31	233.93	235.73	236.41
	S.D.	21.714	21.825	23.869	23.888	22.739	21.618	22.866	22.513
	N	52	52	52	52	52	51	51	50
100	Mean	227.85	228.79	227.76	227.73	227.98	227.67	226.33	226.14
	S.D.	28.330	28.133	28.069	29.300	27.687	27.895	30.588	29.216
	N	51	51	51	51	50	50	50	49
1000	Mean	221.36	222.52	223.46	223.89	223.11	225.11	226.47	225.83
	S.D.	26.090	26.722	27.546	27.176	27.185	28.016	27.755	27.205
	N	52	52	52	52	52	52	52	52

TABLE 3-F-11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		574	581	588	596	602	609	616	623
		(Day)							
0	Mean	223.67	222.12	223.07	223.72	225.43	226.59	224.46	228.60
	S.D.	31.956	33.181	33.742	35.623	31.492	32.615	36.499	31.536
	N	48	48	48	48	47	47	47	45
10	Mean	236.33*	236.65*	237.31*	238.63*	238.65*	241.55*	239.67*	238.87
	S.D.	22.166	22.497	22.345	21.818	22.887	23.385	24.083	26.422
	N	50	50	50	50	50	50	50	50
100	Mean	223.34	223.26	224.29	223.20	221.97	226.13	226.72	228.41
	S.D.	30.822	30.858	31.109	32.209	34.066	33.251	32.578	30.301
	N	49	48	48	48	48	47	46	45
1000	Mean	225.42	226.89	227.92	227.01	226.96	228.56	230.15	230.92
	S.D.	27.402	27.689	28.303	29.749	29.747	29.300	28.672	30.370
	N	52	52	52	52	52	52	52	51

* ; $p<0.05$

TABLE 3-F-12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		(Day) 630	637	644	651	658	665	672	679
0	Mean	230.91	230.77	230.26	231.06	232.24	231.62	232.60	229.59
	S.D.	31.376	32.085	32.739	34.484	28.560	29.302	29.813	30.524
	N	45	44	44	42	41	41	41	41
10	Mean	240.85	241.24	243.18 *	243.26	243.13	244.21	245.19	243.98
	S.D.	28.436	27.083	27.384	28.875	30.990	32.571	35.840	37.946
	N	49	48	47	47	47	45	44	43
100	Mean	231.47	231.49	232.45	232.22	231.98	232.58	236.68	234.32
	S.D.	30.620	30.582	29.894	30.584	32.049	32.119	31.708	30.837
	N	44	44	44	44	43	41	39	39
1000	Mean	234.37	232.95	234.75	234.65	236.13	235.07	236.09	233.54
	S.D.	30.183	30.224	30.074	29.520	30.305	30.383	31.595	31.928
	N	51	50	50	50	48	48	47	47

* ; $p<0.05$

TABLE 3-F-13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Body Weight Gain Data (Female)

Summary of Mean Values

Experimental No. 82014

Body Weight Gain (Grams)

Level (ppm)		686	693	700	707	714	721	728
		(Day)						
0	Mean	226.48	232.50	233.37	230.97	230.05	226.68	225.39
	S.D.	34.373	25.563	23.785	25.325	26.574	26.604	24.780
	N	41	37	36	36	34	33	32
10	Mean	247.62 **	245.18 *	245.05 *	243.63 *	242.34	240.19	241.79 *
	S.D.	32.766	23.003	25.449	26.897	29.479	33.668	33.285
	N	40	39	38	38	37	37	35
100	Mean	234.72	233.09	234.23	232.63	231.43	233.19	230.41
	S.D.	32.302	32.506	32.844	34.567	34.453	33.677	34.313
	N	39	39	39	39	38	36	35
1000	Mean	234.92	235.63	234.55	232.84	232.20	231.04	225.23
	S.D.	33.578	31.884	32.280	33.932	33.790	34.479	33.254
	N	46	45	44	44	44	41	40

* ; $p<0.05$, ** ; $p<0.01$

TABLE 4-M-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Male)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 7	14	21	28	35	42	49	56
0	Mean	15.64	16.99	18.18	18.13	17.86	17.33	17.34	17.57
	S.D.	0.729	1.025	1.368	0.657	0.602	0.644	0.814	1.196
	N	12	12	12	12	12	12	12	12
10	Mean	15.82	17.23	18.27	19.15 *	18.97 *	18.04 *	18.61 ***	18.44
	S.D.	0.671	0.910	1.092	1.093	1.264	0.974	0.774	0.961
	N	12	12	12	12	12	12	12	12
100	Mean	15.88	17.40	17.79	18.10	18.72 *	18.26 **	18.07 *	18.22
	S.D.	0.559	0.685	0.679	0.849	0.944	0.738	0.664	0.542
	N	12	12	12	12	12	12	12	12
1000	Mean	15.33	16.39	17.22 *	17.53	18.16	17.32	17.62	17.70
	S.D.	0.611	1.036	0.831	0.824	0.791	0.765	0.772	0.834
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 4-M-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Male)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 63	70	77	84	91	119	154	182
82014 Male									
0	Mean	17.50	17.93	17.37	17.41	17.36	16.43	17.25	17.61
	S.D.	0.885	1.269	0.829	0.487	0.678	0.666	1.324	1.273
	N	12	12	12	12	12	12	12	12
					***	**		*	*
10	Mean	18.15	18.17	17.72	18.63	18.33	16.65	18.22	19.19
	S.D.	0.744	0.750	0.534	0.690	0.828	0.663	0.713	1.493
	N	12	12	12	12	12	12	12	12
					**			*	**
100	Mean	18.04	17.73	17.83	18.02	17.93	16.97	18.34	19.15
	S.D.	0.653	0.633	0.693	0.520	1.616	1.218	0.783	0.895
	N	12	12	12	12	12	12	12	12
1000	Mean	17.20	17.43	17.10	17.48	17.75	16.79	17.18	17.95
	S.D.	0.812	0.560	0.705	0.934	0.629	0.867	0.461	0.831
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 4-M-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Male)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 210	245	273	301	365	392	483	518
0	Mean	17.27	16.67	17.28	16.37	15.67	16.38	15.62	15.85
	S.D.	0.533	0.735	0.563	0.722	0.997	1.728	1.258	1.018
	N	12	12	12	12	12	12	12	12
10	Mean	17.08	16.75	17.37	17.43 **	15.38	17.51	17.03 **	16.74
	S.D.	0.854	0.780	1.381	0.959	0.937	0.630	1.180	1.270
	N	12	12	12	12	12	12	12	12
100	Mean	17.71	16.57	17.29	16.87	15.63	16.68	16.83 *	16.81 *
	S.D.	0.970	1.011	0.746	0.752	0.751	0.741	0.882	0.765
	N	12	12	12	12	12	12	12	12
1000	Mean	16.22 **	15.82 **	16.44 *	15.44 **	14.65 **	16.62	15.41	12.63 ***
	S.D.	0.965	0.656	0.961	0.753	0.701	0.626	1.079	0.485
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 4-M-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Male)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 546	574	609	637	665	700	728
0	Mean	16.88	16.60	16.11	17.63	15.95	17.01	16.01
	S.D.	0.908	1.057	1.827	1.263	2.518	1.639	1.108
	N	12	12	11	12	12	11	11
			**	***				**
10	Mean	17.32	17.95	18.50	17.63	16.76	17.07	17.63
	S.D.	1.115	1.054	1.105	1.076	2.664	1.289	1.383
	N	12	12	12	12	12	12	12
			**					
100	Mean	16.58	17.76	17.33	17.25	16.76	16.98	16.74
	S.D.	2.021	0.813	1.268	1.814	1.503	0.854	1.030
	N	12	12	12	12	12	12	12
				*	*		**	
1000	Mean	16.58	15.58	18.17	16.45	15.28	14.50	15.80
	S.D.	1.025	3.287	2.683	1.104	1.731	2.380	0.741
	N	12	11	11	11	11	11	8

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 4-F-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Female)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 7	14	21	28	35	42	49	56
0	Mean	12.42	12.18	11.94	12.58	12.27	12.29	12.27	12.52
	S.D.	0.726	0.650	0.442	0.488	0.650	0.692	0.660	0.691
	N	12	12	12	12	12	12	12	12
10	Mean	12.63	13.02 *	12.44 *	12.46	12.47	13.17 *	13.28 **	12.93
	S.D.	0.577	0.981	0.624	0.493	0.867	1.119	0.817	0.651
	N	12	12	12	12	12	12	12	12
100	Mean	12.38	12.63	12.28	12.28	12.68	12.45	12.55	12.25
	S.D.	0.655	0.651	0.840	0.694	0.848	0.874	1.024	1.159
	N	12	12	12	12	12	12	12	12
1000	Mean	12.53	12.52	12.37	12.41	12.83 *	12.74	12.48	12.13
	S.D.	0.614	0.720	0.687	0.537	0.571	0.542	0.706	0.939
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$

TABLE 4-F-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Female)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 63	70	77	84	91	119	154	182
0	Mean	12.33	12.08	12.23	12.13	12.13	12.02	12.77	12.14
	S.D.	0.883	0.895	0.827	0.709	0.584	0.803	0.560	1.126
	N	12	12	12	12	12	12	12	12
10	Mean	12.85	12.59	12.58	12.58	12.53	12.36	13.29 *	13.04 *
	S.D.	0.729	0.680	0.475	1.078	0.848	0.858	0.596	0.645
	N	12	12	12	12	12	12	12	12
100	Mean	12.38	12.11	12.56	12.52	12.67	13.41 **	13.41	12.92
	S.D.	0.980	0.939	0.772	0.911	0.966	1.085	1.097	0.812
	N	12	12	12	12	12	12	12	12
1000	Mean	12.65	12.82 *	12.53	12.42	12.37	11.71	12.51	12.04
	S.D.	0.739	0.698	0.512	0.800	0.797	0.611	1.053	0.660
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$

TABLE 4-F-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Female)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 210	245	273	301	365	392	483	518
0	Mean	12.71	12.02	12.57	12.61	11.74	12.61	13.93	13.43
	S.D.	0.909	0.746	0.840	0.740	0.922	0.691	1.081	0.711
	N	12	12	12	12	12	12	12	12
10	Mean	12.55	12.41	12.38	13.08	11.48	12.88	13.38	13.07
	S.D.	0.706	0.803	0.570	0.757	0.643	0.726	1.176	1.143
	N	12	12	12	12	12	12	12	12
100	Mean	12.75	13.30 **	12.30	12.16	11.22	13.02	14.48	13.48
	S.D.	1.365	0.960	0.977	0.910	0.624	1.220	0.848	1.141
	N	12	12	12	12	12	12	12	12
1000	Mean	11.96	12.63	13.13	12.03	11.08	13.03	13.38	12.75 *
	S.D.	1.048	0.702	0.531	0.887	0.791	0.900	0.964	0.794
	N	12	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$

TABLE 4-F-4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Food Consumption Data (Female)

Summary of Mean Values

Experimental No. 82014

Food Consumption (g/Animal/Day)

Level (ppm)		(Day) 546	574	609	637	665	700	728
0	Mean	13.76	14.21	15.60	16.18	15.34	15.77	14.86
	S.D.	1.964	1.160	2.365	1.139	1.317	1.554	2.392
	N	12	12	12	12	12	11	11
10	Mean	13.00	13.93	15.19	14.65 **	15.14	14.51	14.62
	S.D.	1.537	0.938	1.957	0.989	1.709	1.293	1.539
	N	12	12	12	12	12	11	11
100	Mean	13.92	14.44	14.98	15.28	14.80	14.67	14.57
	S.D.	1.989	1.142	1.358	1.252	1.712	1.500	1.448
	N	12	12	12	12	11	11	10
1000	Mean	13.54	14.31	14.25	14.13 ***	14.06 *	15.06	14.30
	S.D.	1.242	0.742	1.289	1.110	1.129	1.206	2.395
	N	12	12	12	12	12	12	12

* ; $p<0.05$, ** ; $p<0.01$, *** ; $p<0.001$

TABLE 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

SUMMARY OF URINALYSIS DATA

ANIMALS KILLED ON SCHEDULE (104 WEEKS)

EXPERIMENTAL NO. 82014

MALE

LEVEL (PPM)	NUMBER OF EXAMINED	PH					PROTEIN (MG/DL)					GLUCOSE (G/DL)					KETONES (MG/DL)					BILIRUBIN				OCCULT BLOOD					UROBILINOGEN (E.U./DL)				
		5	6	7	8	9	-	TRACE	30	100	≥300	-	0.1	0.25	0.5	1	-	5	15	40	≥80	-	1+	2+	3+	-	TRACE	1+	2+	3+	0.1	1	2	4	8
0	24	0	4	19	1	0	0	0	0	4	20	6	18	0	0	0	16	7	1	0	0	12	11	1	0	20	2	1	0	1	0	21	3	0	0
10	24	0	2	20	2	0	0	0	0	5	19	5	18	1	0	0	11	13	0	0	0	11	13	0	0	21	1	1	1	0	0	22	1	1	0
100	24	0	1	23	0	0	0	0	0	5	19	6	17	1	0	0	16	8	0	0	0	11	12	0	1	22	1	0	1	0	0	18	4	2	0
1000	24	0	1	23	0	0	0	0	0	6	18	1	22	0	1	0*	15	8	1	0	0	12	12	0	0	22	2	0	0	0	0	23	1	0	0

FEMALE

0	24	0	1	14	9	0	0	0	3	9	12	8	16	0	0	0	16	8	0	0	0	23	1	0	0	21	2	0	1	0	1	23	0	0	0
10	24	0	1	14	9	0	1	2	6	8	7*	9	15	0	0	0	19	5	0	0	0	20	4	0	0	23	0	1	0	0	2	22	0	0	0
100	23	0	3	15	5	0	0	0	2	14	7	9	14	0	0	0	9	13	1	0	0*	15	8	0	0**	19	3	1	0	0	1	21	1	0	0
1000	24	0	6	13	5	0*	0	0	6	9	9	9	15	0	0	0	11	13	0	0	0	15	9	0	0**	22	2	0	0	0	1	23	0	0	0

* ; P<0.05 , ** ; P<0.01

- ; NEGATIVE , 1+ ; SLIGHT , 2+ ; MODERATE , 3+ ; SEVERE

TABLE 6-1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Hematological Data

Summary of Mean Values

Animals Killed on Schedule (104 Week)

Experimental No. 82014

(Male)

Level (ppm)		RBC Count (10**4 /cmm)	WBC Count (10**2 /cmm)	Ht (%)	Hb Conc. (g/dl)	Platelet Count (10**4 /cmm)	MCV (cubic micron)	MCH (pico gram)	MCHC (%)
0	Mean	923.2	37.1	45.26	15.02	62.05	49.55	16.40	33.14
	S.D.	167.51	17.65	6.613	2.313	12.925	3.718	1.000	0.783
	N	34	34	34	34	34	34	34	34
10	Mean	893.4	30.1*	44.46	14.67	63.01	49.94	16.45	32.96
	S.D.	132.64	8.10	5.620	2.032	13.583	1.754	0.729	1.301
	N	34	34	34	34	34	34	34	34
100	Mean	889.8	36.45	43.95	14.57	61.19	50.46	16.60	33.09
	S.D.	166.58	23.553	5.730	2.108	14.443	7.679	1.622	1.370
	N	41	40	41	41	41	41	41	41
1000	Mean	931.0	32.21	45.17	15.00	59.89	48.66	16.15	33.21
	S.D.	126.27	9.033	5.412	1.833	9.363	1.918	0.541	1.004
	N	33	32	33	33	33	33	33	33

(Female)

Level (ppm)		RBC Count (10**4 /cmm)	WBC Count (10**2 /cmm)	Ht (%)	Hb Conc. (g/dl)	Platelet Count (10**4 /cmm)	MCV (cubic micron)	MCH (pico gram)	MCHC (%)
0	Mean	766.5	33.1	39.96	13.49	53.74	52.85	17.73	33.60
	S.D.	135.38	19.04	5.460	2.194	15.264	5.520	1.693	1.813
	N	28	28	28	28	28	28	28	28
10	Mean	792.6	27.8	41.17	13.86	47.88	52.14	17.53	33.66
	S.D.	72.49	15.85	2.623	0.988	9.090	2.698	0.761	0.825
	N	29	29	29	29	29	29	29	29
100	Mean	807.3	28.0	41.89	14.09	48.65	52.09	17.51	33.63
	S.D.	65.97	9.65	2.351	0.875	8.579	3.188	0.748	0.881
	N	28	28	28	28	28	28	28	28
1000	Mean	813.8	30.2	41.90	14.00	49.83	51.81	17.28	33.39
	S.D.	95.91	14.40	3.303	1.203	9.143	3.428	0.924	0.951
	N	31	31	31	31	31	31	31	31

* ; $p<0.05$

TABLE 6-2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

HEMATOLOGICAL DATA (HEMOGRAM-1)

SUMMARY OF MEAN VALUES

ANIMALS KILLED ON SCHEDULE (104 WEEKS)

EXPERIMENTAL NO. 82014

(MALE)

LEVEL (PPM)		DIFFERANTIAL LEUCOCYTE COUNT (NUMBER OF CELLS PER HUNDRED)							
		NEUTROPHILS SEGMENT.	NEUTROPHILS STAB.	EOSINO-PHILS	BASO-PHILS	LYMPHO-CYTES	PLASMO-CYTES	MONOCYTES	OTHERS
0	MEAN	46.82	1.97	1.88	0.0	49.32	0.0	0.0	0.0
	S.D.	12.34	1.96	1.27	0.0	11.90	0.0	0.0	0.0
	N	34	34	34	34	34	34	34	34
10	MEAN	46.94	1.59	1.82	0.0	49.65	0.0	0.0	0.0
	S.D.	9.84	1.58	1.34	0.0	9.37	0.0	0.0	0.0
	N	34	34	34	34	34	34	34	34
100	MEAN	45.93	1.24	1.80	0.0	51.00	0.0	0.02	0.0
	S.D.	12.55	1.14	1.63	0.0	12.77	0.0	0.16	0.0
	N	41	41	41	41	41	41	41	41
1000	MEAN	47.24	1.91	1.70	0.0	49.15	0.0	0.0	0.0
	S.D.	11.24	2.02	1.53	0.0	11.91	0.0	0.0	0.0
	N	33	33	33	33	33	33	33	33

(FEMALE)

0	MEAN	41.18	1.32	1.00	0.0	56.50	0.0	0.0	0.0
	S.D.	14.14	1.09	1.05	0.0	14.74	0.0	0.0	0.0
	N	28	28	28	28	28	28	28	28
10	MEAN	45.17	1.52	1.28	0.0	52.03	0.0	0.0	0.0
	S.D.	13.98	1.72	1.03	0.0	14.13	0.0	0.0	0.0
	N	29	29	29	29	29	29	29	29
100	MEAN	43.96	1.21	1.82 *	0.0	52.93	0.0	0.07	0.0
	S.D.	9.48	1.17	1.61	0.0	9.46	0.0	0.26	0.0
	N	28	28	28	28	28	28	28	28
1000	MEAN	44.42	1.74	1.65 *	0.0	52.16	0.0	0.03	0.0
	S.D.	11.64	1.29	1.28	0.0	12.26	0.0	0.18	0.0
	N	31	31	31	31	31	31	31	31

* ; P<0.05

TABLE 6-3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

HEMATOLOGICAL DATA (HEMOGRAM-2)

SUMMARY OF MEAN VALUES

ANIMALS KILLED ON SCHEDULE (104 WEEKS)

(MALE) EXPERIMENTAL NO. 82014

LEVEL (PPM)		WBC COUNTS (X100/CMM)	LEUCOCYTES COUNT (X100/CMM) NEUTROPHILS SEGMENT.	STAB.	EOSINO-PHILS	BASO-PHILS	LYMPHO-CYTES	PLASMO-CYTES	MONOCYTES	OTHERS
	MEAN	37.1	18.17	0.64	0.65	0.0	17.59	0.0	0.0	0.0
0	S.D.	17.65	13.42	0.76	0.50	0.0	8.29	0.0	0.0	0.0
	N	34	34	34	34	34	34	34	34	34
	MEAN	30.1 *	14.43	0.48	0.53	0.0	14.67	0.0	0.0	0.0
10	S.D.	8.10	5.97	0.50	0.41	0.0	4.14	0.0	0.0	0.0
	N	34	34	34	34	34	34	34	34	34
	MEAN	36.4	16.38	0.51	0.72	0.0	18.84	0.0	0.01	0.0
100	S.D.	23.55	7.34	0.79	0.83	0.0	17.80	0.0	0.04	0.0
	N	40	40	40	40	40	40	40	40	40
	MEAN	32.2	15.79	0.64	0.57	0.0	15.22	0.0	0.0	0.0
1000	S.D.	9.03	5.90	0.67	0.52	0.0	4.81	0.0	0.0	0.0
	N	32	32	32	32	32	32	32	32	32

(FEMALE)

	MEAN	33.1	12.53	0.37	0.31	0.0	19.93	0.0	0.0	0.0
0	S.D.	19.04	5.37	0.30	0.39	0.0	17.50	0.0	0.0	0.0
	N	28	28	28	28	28	28	28	28	28
	MEAN	27.8	13.15	0.45	0.33	0.0	13.86	0.0	0.0	0.0
10	S.D.	15.85	12.80	0.52	0.26	0.0	7.02	0.0	0.0	0.0
	N	29	29	29	29	29	29	29	29	29
	MEAN	28.0	12.35	0.31	0.50	0.0	14.81	0.0	0.03	0.0
100	S.D.	9.65	5.70	0.31	0.44	0.0	6.34	0.0	0.11	0.0
	N	28	28	28	28	28	28	28	28	28
	MEAN	30.2	12.65	0.49	0.45	0.0	16.55	0.0	0.02	0.0
1000	S.D.	14.40	4.57	0.44	0.38	0.0	12.31	0.0	0.11	0.0
	N	31	31	31	31	31	31	31	31	31

* ; $P<0.05$

TABLE 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Biochemical Data

Summary of Mean Values

(Male)

Experimental No. 82014

Level (ppm)		GOT (mIU/ml)	GPT (mIU/ml)	LDH (mIU/ml)	G-GTP (mIU/ml)	ALP (mIU/ml)	Total Cholesterol (mg/dl)	Tri-glyceride (mg/dl)	Free Fatty Acid (μEq/l)	Phospho-lipids (mg/dl)	Glucose (mg/dl)	Total Protein (g/dl)	Albumin (g/dl)	A/G	Urea Nitrogen (mg/dl)	Calcium (mg/dl)	Inorganic Phosphate (mg/dl)	Na (mEq/l)	K (mEq/l)	Cl (mEq/l)
0	Mean	76.6	34.3	459.0	5.983	183.2	155.5	150.0	681.4	217.4	137.0	5.988	3.130	1.110	14.9	10.36	4.16	144.0	4.15	101.5
	S.D.	34.98	17.41	187.97	5.0710	61.82	27.45	34.93	136.88	32.62	13.79	0.3614	0.3380	0.1777	3.22	0.358	0.346	1.96	0.311	1.57
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10	Mean	59.5	28.7	553.8	3.560	150.4	172.0	166.6	649.3	245.1	140.2	5.987	3.200	1.171	14.8	10.37	4.24	142.6	4.01	101.4
	S.D.	9.76	5.70	192.39	2.2125	37.19	54.59	40.52	130.80	72.51	27.57	0.4617	0.3014	0.1929	3.04	0.492	0.334	3.52	0.269	2.46
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
100	Mean	73.6	32.2	480.1	4.420	164.3	149.9	160.8	686.0	213.3	133.1	6.085	3.283	1.180	14.5	10.38	4.25	142.2**	4.02	101.8
	S.D.	46.89	11.38	192.91	3.1269	61.50	36.71	65.87	117.36	48.67	26.19	0.3494	0.2178	0.1243	2.24	0.481	0.303	1.91	0.330	1.58
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1000	Mean	59.8	27.1	558.8	3.907	162.6	140.4	159.2	682.9	199.4	133.1	5.986	3.223	1.174	14.0	10.32	4.24	142.1**	4.15	100.8
	S.D.	10.76	8.66	194.38	3.3040	35.82	40.07	55.05	88.85	46.41	18.99	0.3418	0.2505	0.1324	2.13	0.388	0.456	2.31	0.282	2.31
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

(Female)

0	Mean	70.9	41.7	349.3	1.676	158.9	144.9	231.5	923.0	253.6	149.8	6.523	3.890	1.481	15.6	10.95	3.62	142.9	3.57	101.6
	S.D.	21.30	15.21	129.61	0.7638	35.99	42.74	156.22	212.21	67.62	28.70	0.7669	0.5830	0.2243	2.46	0.817	0.780	1.74	0.852	1.57
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
10	Mean	74.2	45.6	331.4	1.623	165.3	146.4	227.2	933.7	254.3	141.4	6.797	4.204	1.642*	14.4	11.35	3.84	142.7	3.84	99.3**
	S.D.	20.77	20.23	124.35	0.6806	71.26	30.16	52.17	227.48	48.73	12.93	0.7413	0.4927	0.2384	1.90	0.868	0.535	1.45	0.463	2.55
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
100	Mean	79.8	47.4	340.4	1.800	173.1	137.5	157.6	874.4	242.6	149.1	6.359	3.838	1.542	15.0	10.73	3.83	142.8	3.56	101.1
	S.D.	26.50	14.13	111.09	0.8638	43.51	25.85	57.47	207.48	40.42	23.00	0.3998	0.2571	0.1916	2.32	0.363	0.847	1.33	0.262	2.70
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1000	Mean	80.2	46.8	314.0	2.057	168.5	130.2	178.1	777.4*	228.3	145.2	6.603	4.039	1.587	14.6	11.23	4.33**	142.4	3.53*	101.2
	S.D.	37.38	16.25	131.60	1.5086	40.15	28.09	56.59	156.75	41.04	21.92	0.5178	0.3538	0.1720	1.93	0.831	0.605	2.059	0.338	1.99
	N	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	20

* ; $p<0.05$, ** ; $p<0.01$

TABLE 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Organ Weight Data (Grams)

Summary of Mean Values

Animals Killed on Schedule (104 Week)

Experimental No. 82014

Level (ppm)		Final Body Weight	Brain	Pituitary	Thyroid	Lung	Heart	Liver	Kidneys	Adrenals	Spleen	Testes	Ovaries
Male													
0	Mean	462.88	2.234	0.03314	0.03336	1.4063	1.1879	15.064	2.934	0.07342	1.6629	4.861	
	S.D.	27.412	0.0642	0.040433	0.018318	0.31076	0.08644	1.5453	0.1991	0.085378	1.54819	1.6323	
	N	36	36	36	33	36	36	36	36	35	36	36	
10	Mean	456.15	2.239	0.03391	0.03189	1.3099	1.1997	14.998	2.994	0.07301	1.2659	4.801	
	S.D.	32.752	0.0803	0.047403	0.007985	0.09645	0.14134	1.1521	0.2739	0.080072	0.24444	1.4476	
	N	34	34	34	34	34	34	34	34	34	34	34	
100	Mean	449.51	2.218	0.03880	0.05083	1.3615	1.1533	14.666	2.950	0.06054	1.5915	4.454	
	S.D.	35.692	0.0574	0.043550	0.113719	0.33952	0.07866	1.5235	0.2772	0.011314	1.73468	1.6676	
	N	42	42	42	42	42	42	42	42	42	42	42	
1000	Mean	473.82	2.244	0.02307	0.03345	1.3587	1.1851	14.780	2.925	0.14546	1.3803	4.830	
	S.D.	20.759	0.0502	0.014521	0.013113	0.15026	0.10048	1.3037	0.2685	0.510662	0.67588	1.9022	
	N	34	34	34	34	34	34	34	34	34	34	34	
Female													
0	Mean	323.46	2.006	0.03923	0.02751	1.0091	0.9214	10.368	2.161	0.06434	1.0727		0.07835
	S.D.	28.632	0.0389	0.054098	0.004870	0.21191	0.07369	1.5993	0.1953	0.007685	1.25607		0.035649
	N	31	31	31	31	31	31	31	31	30	31		31
10	Mean	340.81	2.019	0.04562	0.02542 *	0.9360	0.9284	10.465	2.159	0.07683	0.7495		0.14308
	S.D.	43.293	0.0406	0.051373	0.003034	0.05739	0.09546	1.3628	0.1709	0.074753	0.41607		0.398771
	N	33	33	33	33	33	33	33	33	33	33		33
100	Mean	331.56	2.011	0.03315	0.02580	0.9565	0.9375	10.167	2.140	0.06316	1.0081		0.07031
	S.D.	33.923	0.0460	0.047668	0.006543	0.08713	0.08707	1.6226	0.1523	0.006603	1.60892		0.012623
	N	31	31	31	31	31	31	31	31	31	31		31
1000	Mean	325.95	1.999	0.02413	0.02753	0.9856	0.9249	10.201	2.132	0.07021	1.0679		0.07621
	S.D.	30.735	0.0340	0.015788	0.006035	0.11598	0.07439	1.2698	0.1779	0.033315	1.00334		0.018704
	N	35	35	35	35	35	35	35	35	35	35		35

* ; $p<0.05$

TABLE 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

Organ Weight/Body Weight Ratio ---g/100g

Summary of Mean Values

Animals Killed on Schedule (104 Week)

Experimental No. 82014

Male

Level (ppm)		Final Body Weight (g)	Brain	Pituitary	Thyroid	Lung	Heart	Liver	Kidneys	Adrenals	Spleen	Testes	Ovaries
0	Mean	462.88	0.484	0.00726	0.00721	0.3054	0.2571	3.258	0.636	0.01575	0.3643	1.049	
	S.D.	27.412	0.0287	0.009010	0.003913	0.07455	0.01837	0.3127	0.0508	0.017614	0.35679	0.3509	
	N	36	36	36	33	36	36	36	36	35	36	36	
10	Mean	456.15	0.492	0.00761	0.00704	0.2879	0.2635	3.296	0.659	0.01595	0.2779	1.053	
	S.D.	32.752	0.0277	0.011353	0.001942	0.02292	0.03098	0.2535	0.0719	0.016891	0.05275	0.3062	
	N	34	34	34	34	34	34	34	34	34	34	34	
100	Mean	449.51	0.497	0.00884	0.01179	0.3077	0.2575	3.277	0.661	0.01360	0.3622	0.988	
	S.D.	35.692	0.0402	0.010342	0.028585	0.10597	0.01994	0.3890	0.0868	0.003055	0.42023	0.3553	
	N	42	42	42	42	42	42	42	42	42	42	42	
1000	Mean	473.82	0.474	0.00488	0.00706	0.2870	0.2501	3.125	0.619	0.03173	0.2919	1.020	
	S.D.	20.759	0.0202	0.003077	0.002665	0.03120	0.01855	0.3116	0.0646	0.113581	0.14498	0.3953	
	N	34	34	34	34	34	34	34	34	34	34	34	

Female

Level (ppm)		Final Body Weight (g)	Brain	Pituitary	Thyroid	Lung	Heart	Liver	Kidneys	Adrenals	Spleen	Testes	Ovaries
0	Mean	323.46	0.625	0.01248	0.00853	0.3159	0.2867	3.220	0.671	0.01998	0.3445		0.0242
	S.D.	28.632	0.0558	0.018904	0.001427	0.08464	0.03225	0.5414	0.0616	0.002656	0.44431		0.01021
	N	31	31	31	31	31	31	31	31	30	31		31
10	Mean	340.81	0.602	0.01512	0.00755 **	0.2789 *	0.2757	3.095	0.644	0.02307	0.2204		0.0402
	S.D.	43.293	0.0801	0.020415	0.001175	0.03868	0.03728	0.4024	0.0982	0.023685	0.10780		0.10475
	N	33	33	33	33	33	33	33	33	33	33		33
100	Mean	331.56	0.614	0.00994	0.00785	0.2914	0.2849	3.070	0.652	0.01921	0.3086		0.0213
	S.D.	33.923	0.0755	0.013927	0.002078	0.03997	0.03446	0.4173	0.0858	0.002591	0.50483		0.00382
	N	31	31	31	31	31	31	31	31	31	31		31
1000	Mean	325.95	0.618	0.00738	0.00857	0.3052	0.2855	3.141	0.659	0.02176	0.3361		0.0235
	S.D.	30.735	0.0563	0.004578	0.002407	0.04993	0.03000	0.3838	0.0706	0.010696	0.34373		0.00599
	N	35	35	35	35	35	35	35	35	35	35		35

* ; p<0.05, ** ; p<0.01

TABLE 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN F344 RATS

ANIMAL-STATUS SUMMARY (MACROSCOPIC EXAMINATION)

Sex :	Male				Female			
Level (ppm) :	0	10	100	1000	0	10	100	1000
Initial Number of Animals	52	52	52	52	52	52	52	52
Number of Animals Sacrificed on Schedule 24 Months (733-743 Days)	36	34	42	34	31	33	31	35
Number of Animals Killed in Extremis or Dead								
1-364 Days	2	0	0	1	1	0	0	0
365-546 Days	1	5	5	0	1	0	2	0
547-742 Days	13	13	5	17	19	19	19	17
Number of Animals Examined Histopathologically	52	52*	52*	52	52	52*	52*	52
Number of Animals without Histpathological Observation	0	0	0	0	0	0	0	0

* Male : only kidneys and lung were examined.
Female : only kidneys and adrenal glands were examined.

TABLE 11 - 1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
MULTIPLE ORGANS	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
DISCOLORATION	-	52	52	52	51	51	52	52	50
	+	0	0	0	1	1	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	1
YELLOWISH CHANGE	-	52	51	52	51	51	51	49	52
	+	0	1	0	1	1	0	2	0
	++	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	1	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
THORACIC CAVITY	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
HEMORRHAGE	-	52	51	51	52	52	52	51	52
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	1	0
	+++	0	1	0	0	0	0	0	0
PLEURAL FLUID (BLOODY)	-	52	52	52	52	51	52	52	52
	+	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
PLEURAL FLUID	-	51	51	52	52	51	51	52	51
	+	0	0	0	0	1	1	0	1
	++	0	1	0	0	0	0	0	0
	+++	1	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
ABDOMINAL CAVITY	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ASCITES (BLOODY)	-	52	52	52	51	51	51	52	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	1	1	0	0	0
ASCITES	-	51	51	52	52	51	52	52	51
	+	0	1	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	1	0	0	0	1	0	0	0
HEMORRHAGE	-	51	52	50	52	49	52	50	52
	+	0	0	0	0	2	0	1	0
	++	1	0	2	0	0	0	1	0
	+++	0	0	0	0	1	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PLEURA	(NO. EXAMINED) :	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)
	1)								
MASS	-	0	0	0	0	0	0	0	0
	A	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0
	C	0	0	0	1	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PERITONEUM	(NO. EXAMINED) :	(2)	(1)	(3)	(3)	(1)	(0)	(1)	(2)
	1)								
MASS	-	2	1	1	3	1	0	0	0
	A	0	0	0	0	0	0	0	0
	B	0	0	1	0	0	0	0	1
	C	0	0	1	0	0	0	1	1
NODULE	-	0	0	2	1	0	0	1	2
	+	0	0	0	0	0	0	0	0
	++	0	0	1	2	0	0	0	0
	+++	2	1	0	0	1	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
HEART	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
DISCOLORATION	-	52	52	52	51	52	52	52	51
	+	0	0	0	1	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	51	51	52	52	52	52	52	52
	+	1	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
NODULE	-	52	51	52	52	52	51	52	51
	+	0	1	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
WHITISH PATCH	-	52	52	52	52	52	51	52	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
YELLOWISH CHANGE	-	52	51	52	52	52	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
THYMUS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
BLACKISH CHANGE	-	52	51	52	52	50	52	52	52
	+	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	51	50	50	51	51	52	52	52
	+	1	1	2	1	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (GENERAL)	(NO. EXAMINED) :	(1)	(1)	(0)	(1)	(1)	(0)	(0)	(0)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	0	1	0	0	0	0	0	0
	++	1	0	0	1	1	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (SUBMAXI.)	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ENLARGEMENT	-	51	49	52	51	49	50	50	52
	+	1	1	0	1	2	1	2	0
	++	0	1	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF MÉTHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (PULM.HILUS)	(NO. EXAMINED) :	(52)	(51)	(49)	(52)	(49)	(52)	(51)	(52)
	1)								
ENLARGEMENT	-	50	49	49	51	49	51	48	52
	+	1	0	0	1	0	1	3	0
	++	0	2	0	0	0	0	0	0
	+++	1	0	0	0	0	0	0	0
REDDISH CHANGE	-	52	51	48	52	49	52	51	52
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (THYMIC)	(NO. EXAMINED) :	(1)(	0)(	1)(	0)	(0)(	0)(	1)(	2)
	1)								
ENLARGEMENT	-	0	0	1	0	0	0	1	1
	+	1	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (HEPATIC)	(NO. EXAMINED) :	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (MESENT.)	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
HEMORRHAGE	-	52	51	52	52	51	51	52	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	52	50	51	50	50	49	50	51
	+	0	0	0	0	1	3	1	1
	++	0	0	1	1	0	0	0	0
	+++	0	1	0	1	0	0	1	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 14

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (PAN.-DUO.)	(NO. EXAMINED) :	(1)(	0)(	0)(	0)	(0)(	0)(	1)(	0)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	1	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	1	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 15

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (RENAL.HILUS)	(NO. EXAMINED) :	(0)(	0)(	0)(	1)	(0)(	0)(	0)(	0)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	1	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 16

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (ILIAC)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 17

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LYMPH NODES (POPLITEAL)	(NO. EXAMINED) :	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
	1)								
ENLARGEMENT	-	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0
	++	0	0	1	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 18

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
SPLEEN	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ATROPHY	-	52	52	52	52	52	52	52	51
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	1
IMPRESSION	-	52	52	52	50	52	52	52	52
	+	0	0	0	2	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	41	38	40	36	37	34	34	35
	+	2	6	1	5	3	3	4	3
	++	3	4	4	5	5	5	7	7
	+++	6	4	7	6	7	10	7	7
MASS	-	52	51	52	52	52	51	51	51
	A	0	0	0	0	0	1	0	1
	B	0	0	0	0	0	0	1	0
	C	0	1	0	0	0	0	0	0
NODULE	-	52	52	52	49	51	50	52	51
	+	0	0	0	3	1	2	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 19

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
SPLEEN	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
WHITISH PATCH	-	52	52	52	52	52	50	52	52
	+	0	0	0	0	0	2	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	51	50	52	51	52	52	52	51
	+	1	2	0	1	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 20

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LUNG	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ADHESION	-	51	52	52	52	52	52	52	52
	+	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
CONGESTION	-	51	51	50	49	51	52	50	52
	+	0	0	0	1	0	0	0	0
	++	0	1	0	0	0	0	2	0
	+++	1	0	2	2	1	0	0	0
CYST	-	52	52	52	51	52	52	52	51
	+	0	0	0	1	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
DISCOLORATION	-	52	51	52	52	52	50	50	51
	+	0	1	0	0	0	2	1	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	1	0
EMPHYSEMA	-	52	52	51	52	52	52	52	52
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 21

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
LUNG	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
HEMORRHAGE	-	50	52	50	52	48	49	46	51
	+	1	0	1	0	2	2	2	0
	++	1	0	1	0	1	0	4	1
	+++	0	0	0	0	1	1	0	0
ENLARGEMENT	-	51	51	51	52	52	52	52	52
	+	1	1	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
MASS	-	52	52	52	51	52	52	52	52
	A	0	0	0	1	0	0	0	0
	B	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0
NODULE	-	50	48	47	** 42	50	49	51	51
	+	2	3	3	5	2	3	1	0
	++	0	1	2	5	0	0	0	1
	+++	0	0	0	0	0	0	0	0
WHITISH PATCH	-	52	51	51	52	51	51	51	51
	+	0	0	1	0	0	1	0	1
	++	0	1	0	0	0	0	1	0
	+++	0	0	0	0	1	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
** P<0.01

TABLE 11 - 22

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
LUNG	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
REDDISH CHANGE	-	50	50	51	49	52	49	52	52
	+	2	2	1	1	0	3	0	0
	++	0	0	0	1	0	0	0	0
	+++	0	0	0	1	0	0	0	0
YELLOWISH CHANGE	-	51	52	52	52	52	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	1	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 23

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
ORAL CAVITY	(NO. EXAMINED) :	(0)	(0)	(1)	(0)	(0)	(0)	(1)	(0)
	1)								
MASS	-	0	0	1	0	0	0	0	0
	A	0	0	0	0	0	0	1	0
	B	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 24

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
TONGUE	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(3)	(0)	(0)	(0)
	1)								
ABSCESS	-	1	0	0	0	2	0	0	0
	+	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
MASS	-	0	0	0	0	1	0	0	0
	A	1	0	0	0	2	0	0	0
	B	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0
NODULE	-	1	0	1	0	3	0	0	0
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 25

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
STOMACH	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
HEMORRHAGE	-	52	50	52	52	52	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	52	50	52	52	52	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
THICKENING	-	52	50	52	52	52	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	1	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 26

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
JEJUNUM	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
MASS	-	52	49	52	52	51	52	52	52
	A	0	1	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0
	C	0	1	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 27

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
COLON	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
NODULE	-	52	50	52	52	51	51	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT OF PEYER'S PATCH	-	52	51	52	52	51	52	51	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	1	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 28

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
RECTUM	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ADHESION	-	52	51	52	52	51	52	52	51
	+	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
CONSTIPATION	-	52	50	52	52	51	52	52	51
	+	0	0	0	0	0	0	0	1
	++	0	1	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
HEMORRHAGE	-	52	50	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 29

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PAROTID GLANDS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ENLARGEMENT	-	51	51	52	51	51	52	52	52
	+	1	0	0	1	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 30

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
LIVER	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ADHESION	-	52	52	51	52	52	52	52	52
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ATROPHY	-	51	52	52	52	52	51	52	51
	+	1	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
CONGESTION	-	52	52	52	52	52	51	51	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	1	0
DISCOLORATION	-	46	46	47	51	50	51	44	48
	+	5	3	3	0	0	0	4	3
	++	0	2	0	1	0	0	1	0
	+++	1	1	2	0	2	1	3	1
ENLARGEMENT	-	46	48	47	46	47	47	48	47
	+	1	1	2	2	2	4	1	4
	++	0	0	1	2	2	0	1	0
	+++	5	3	2	2	1	1	2	1

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 31

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
LIVER	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
MASS	-	50	51	52	51	51	52	51	51
	A	2	1	0	1	1	0	1	0
	B	0	0	0	0	0	0	0	1
	C	0	0	0	0	0	0	0	0
NODULE	-	50	49	50	48	45	* 52	44	45
	+	2	3	1	2	4	0	7	7
	++	0	0	1	1	2	0	0	0
	+++	0	0	0	1	1	0	1	0
WHITISH PATCH	-	52	50	49	51	51	51	51	52
	+	0	2	3	1	0	1	1	0
	++	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	52	51	52	52	51	51	50	51
	+	0	1	0	0	1	1	1	1
	++	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0
REDDISH PATCH	-	52	52	52	52	51	50	52	52
	+	0	0	0	0	1	2	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 11 - 32

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
LIVER	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ROUGHNESS OF SURFACE	-	46	49	49	47	45	43	45	45
	+	6	2	3	4	2	7	4	3
	++	0	1	0	1	2	0	1	0
	+++	0	0	0	0	3	2	2	4
SOFTENING	-	52	51	52	52	52	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
YELLOWISH CHANGE	-	46	47	51	45	47	44	46	47
	+	6	3	0	4	3	3	3	4
	++	0	2	0	2	1	3	1	1
	+++	0	0	1	1	1	2	2	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 33

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PANCREAS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
DISCOLORATION	-	52	50	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
MASS	-	52	51	52	52	51	52	51	52
	A	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	1	0
	C	0	0	0	0	0	0	0	0
NODULE	-	52	49	51	50	50	52	51	51
	+	0	0	0	2	1	0	1	1
	++	0	2	1	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 34

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
KIDNEYS	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
BLACKISH CHANGE	-	51	49	51	52	49	52	51	52
	+	0	3	1	0	2	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	1	0	0	0	0	0	0	0
CYST	-	51	52	51	52	51	51	51	52
	+	1	0	1	0	0	0	1	0
	++	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0
DISCOLORATION	-	52	51	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	51	52	52	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	1	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
HYDRONEPHROSIS	-	52	51	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 35

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
KIDNEYS	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
IMPRESSION	-	52	52	52	52	51	51	52	50
	+	0	0	0	0	0	1	0	2
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
MASS	-	51	52	51	52	51	52	52	52
	A	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0
	C	1	0	1	0	0	0	0	0
WHITISH PATCH	-	52	50	52	51	51	51	52	52
	+	0	2	0	0	0	1	0	0
	++	0	0	0	1	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	43	42	46	47	46	48	48	50
	+	8	9	5	4	3	4	2	2
	++	1	1	0	1	2	0	1	0
	+++	0	0	1	0	0	0	1	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 36

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
URINARY BLADDER	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
CALCULOSIS	-	52	51	52	52	51	51	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	1	0	0
EXPANSION	-	52	50	51	52	51	52	52	50
	+	0	1	1	0	0	0	0	2
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
HEMORRHAGE	-	52	51	51	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	1	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
MASS	-	52	51	52	52	51	51	52	52
	A	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	1	0	0
	C	0	0	0	0	0	0	0	0
NODULE	-	52	51	51	52	51	52	52	52
	+	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 37

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
URINARY BLADDER	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
THICKENING	-	52	50	52	52	51	51	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	1	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 38

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
URETER	(NO. EXAMINED) :	(1)(	0)(	0)(	0)	(0)(	0)(	0)(	0)
	1)								
NODULE	-	0	0	0	0	0	0	0	0
	+	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 39

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
TESTES	(NO. EXAMINED) :	(52)	(51)	(52)	(52)				
	1)								
ATROPHY	-	29	27	37	36				
	+	16	14	10	8				
	++	1	1	0	3				
	+++	6	9	5	5				
ENLARGEMENT	-	29	31	35	37				
	+	6	4	3	4				
	++	5	4	6	4				
	+++	12	12	8	7				
MASS	-	52	51	52	51				
	A	0	0	0	0				
	B	0	0	0	1				
	C	0	0	0	0				
NODULE	-	7	10	8	10				
	+	1	2	3	1				
	++	7	6	9	8				
	+++	37	33	32	33				
SOFTENING	-	49	48	48	45				
	+	3	2	3	6				
	++	0	0	0	0				
	+++	0	1	1	1				

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 40

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
EPIDIDYMIS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)				
	1)								
ATROPHY	-	52	51	51	52				
	+	0	0	0	0				
	++	0	0	0	0				
	+++	0	0	1	0				
ENLARGEMENT	-	52	50	52	52				
	+	0	0	0	0				
	++	0	1	0	0				
	+++	0	0	0	0				
MASS	-	52	51	51	52				
	A	0	0	1	0				
	B	0	0	0	0				
	C	0	0	0	0				
NODULE	-	52	51	52	51				
	+	0	0	0	0				
	++	0	0	0	1				
	+++	0	0	0	0				

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 41

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PROSTATIC GLAND	(NO. EXAMINED) :	(52)	(51)	(52)	(52)				
	1)								
ATROPHY	-	46	41	48	49				
	+	1	1	1	1				
	++	0	0	0	0				
	+++	5	9	3	2				
MASS	-	52	51	51	52				
	A	0	0	1	0				
	B	0	0	0	0				
	C	0	0	0	0				
NODULE	-	50	51	48	51				
	+	0	0	0	0				
	++	0	0	0	0				
	+++	2	0	4	1				

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 42

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
SEMINAL VESICLE	(NO. EXAMINED) :	(52)	(51)	(52)	(52)				
	1)								
ATROPHY	-	19	17	23	22				
	+	4	7	5	9				
	++	4	4	3	5				
	+++	25	23	21	16				
ENLARGEMENT	-	50	51	52	51				
	+	0	0	0	1				
	++	0	0	0	0				
	+++	2	0	0	0				
NODULE	-	52	51	52	51				
	+	0	0	0	0				
	++	0	0	0	0				
	+++	0	0	0	1				

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 43

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
BULBOURETHRAL GLAND	(NO. EXAMINED) :	(1)	(0)	(2)	(0)				
	1)								
ENLARGEMENT	-	0	0	0	0				
	+	1	0	1	0				
	++	0	0	1	0				
	+++	0	0	0	0				

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 44

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
OVARIES	(NO. EXAMINED) :					(51)	(52)	(52)	(52)
	1)								
ATROPHY	-					50	52	52	52
	+					1	0	0	0
	++					0	0	0	0
	+++					0	0	0	0
BLACKISH CHANGE	-					50	52	52	52
	+					1	0	0	0
	++					0	0	0	0
	+++					0	0	0	0
CYST	-					47	51	50	51
	+					4	1	1	1
	++					0	0	0	0
	+++					0	0	1	0
EDEMA	-					51	51	52	52
	+					0	1	0	0
	++					0	0	0	0
	+++					0	0	0	0
ENLARGEMENT	-					51	52	52	50
	+					0	0	0	1
	++					0	0	0	1
	+++					0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 45

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED)									
OVARIES	(NO. EXAMINED) :					(51)	(52)	(52)	(52)
	1)								
NODULE	-					51	51	52	52
	+					0	0	0	0
	++					0	1	0	0
	+++					0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 46

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
UTERUS	(NO. EXAMINED) :					(51)	(52)	(52)	(52)
	1)								
HEMORRHAGE	-					49	51	52	52
	+					2	1	0	0
	++					0	0	0	0
	+++					0	0	0	0
ENLARGEMENT	-					46	48	49	47
	+					3	2	3	5
	++					2	1	0	0
	+++					0	1	0	0
MASS	-					49	51	49	49
	A					0	1	0	0
	B					1	0	0	0
	C					1	0	3	3
NODULE	-					50	52	52	51
	+					1	0	0	1
	++					0	0	0	0
	+++					0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 47

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
VAGINA	(NO. EXAMINED) :					(51)	(52)	(52)	(52)
	1)								
ADHESION	-					51	51	52	52
	+					0	1	0	0
	++					0	0	0	0
	+++					0	0	0	0
ENLARGEMENT	-					50	52	51	52
	+					1	0	1	0
	++					0	0	0	0
	+++					0	0	0	0
MASS	-					51	52	52	50
	A					0	0	0	1
	B					0	0	0	0
	C					0	0	0	1

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 48

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
CLITORAL GLAND	(NO. EXAMINED) :					(2)(	1)(	4)(	5)
	1)								
MASS	-					0	0	1	1
	A					1	0	1	1
	B					0	0	0	1
	C					1	1	2	2
NODULE	-					2	1	3	4
	+					0	0	1	1
	++					0	0	0	0
	+++					0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 49

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
PITUITARY GLAND	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
CYST	-	52	52	52	52	51	52	52	52
	+	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
DISCOLORATION	-	52	52	52	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0
EDEMA	-	52	52	52	51	52	52	52	52
	+	0	0	0	1	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
HEMORRHAGE	-	40	37	38	40	26	26	30	31
	+	10	4	5	8	18	17	16	15
	++	0	9	8	2	8	9	0	6
	+++	2	2	1	2	0	0	6	0
ENLARGEMENT	-	41	38	39	42	38	* 28	36	38
	+	2	3	2	5	7	7	8	6
	++	1	6	5	2	2	6	3	5
	+++	8	5	6	3	5	11	5	3

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 11 - 50

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED) PITUITARY GLAND	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
MASS	-	52	51	52	51	49	51	50	50
	A	0	1	0	1	3	1	2	2
	B	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0
NODULE	-	52	51	52	52	52	52	51	52
	+	0	1	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	52	52	52	49	51	51	49	51
	+	0	0	0	3	1	0	3	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	1	0	0
REDDISH PATCH	-	52	52	52	52	52	51	52	51
	+	0	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 51

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
THYROID GLANDS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
CYST	-	51	51	52	52	51	52	52	52
	+	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
DISCOLORATION	-	52	51	52	52	51	51	52	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	52	50	52	52	50	52	52	52
	+	0	1	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	48	48	48	50	47	51	49	49
	+	0	1	2	1	4	0	3	2
	++	2	1	0	1	0	0	0	1
	+++	2	1	2	0	0	1	0	0
NODULE	-	52	50	52	52	50	52	52	52
	+	0	1	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 52

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
ADRENAL GLANDS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ATROPHY	-	52	50	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ENLARGEMENT	-	47	50	46	49	50	49	50	48
	+	1	0	2	1	1	2	2	4
	++	2	1	3	2	0	0	0	0
	+++	2	0	1	0	0	1	0	0
MASS	-	52	51	52	51	50	52	52	51
	A	0	0	0	0	0	0	0	1
	B	0	0	0	0	1	0	0	0
	C	0	0	0	1	0	0	0	0
NODULE	-	52	51	52	52	51	51	52	52
	+	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
WHITISH PATCH	-	52	51	52	52	50	52	52	52
	+	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 53

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
(CONTINUED) ADRENAL GLANDS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
REDDISH CHANGE	-	52	51	52	52	51	52	52	50
	+	0	0	0	0	0	0	0	2
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 54

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
MUSCLE (Q. FEMORIS)	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
MASS	-	52	51	52	52	51	52	52	51
	A	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	1

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 55

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
SKIN	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ABSCESS	-	51	50	52	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	1	0	0	0	0	0	0
	+++	1	0	0	0	0	0	0	0
MASS	-	49	47	48	50	50	51	51	51
	A	2	1	4	2	1	1	0	1
	B	1	3	0	0	0	0	1	0
	C	0	0	0	0	0	0	0	0
NODULE	-	51	48	49	52	49	51	52	52
	+	1	1	1	0	2	0	0	0
	++	0	1	2	0	0	1	0	0
	+++	0	1	0	0	0	0	0	0
SCAB	-	51	51	51	51	51	52	52	52
	+	1	0	0	0	0	0	0	0
	++	0	0	1	1	0	0	0	0
	+++	0	0	0	0	0	0	0	0
ULCER	-	52	51	51	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	1	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 56

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
SKIN (SUBCUTIS)	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
EDEMA	-	52	51	52	52	51	52	52	51
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	1
MASS	-	44	37	45	45	51	50	51	50
	A	1	2	2	1	0	0	0	0
	B	1	3	2	1	0	0	1	1
	C	6	9	3	5	0	2	0	1
NODULE	-	51	50	50	52	51	52	51	51
	+	1	0	0	0	0	0	1	1
	++	0	1	2	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 57

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
MAMMARY GLAND	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ENLARGEMENT	-	52	51	52	52	52	50	51	52
	+	0	0	0	0	0	1	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	1	0	0
MASS	-	52	51	50	50	45	44	38	44
	A	0	0	0	1	3	0	3	1
	B	0	0	0	0	2	2	6	2
	C	0	0	2	1	2	6	5	5
NODULE	-	52	51	52	52	52	52	51	52
	+	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 58

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
EYE BALLS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
ATROPHY	-	52	50	52	52	51	52	52	52
	+	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	51	48	52	50	48	52	49	48
	+	0	3	0	1	1	0	2	3
	++	0	0	0	0	0	0	1	0
	+++	1	0	0	1	2	0	0	1
HEMORRHAGE	-	51	51	51	52	51	52	52	51
	+	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	1	0	0	0	0	1
ENLARGEMENT	-	51	51	52	52	51	52	52	52
	+	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 59

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
HARDERIAN GLANDS	(NO. EXAMINED) :	(52)	(51)	(52)	(52)	(51)	(52)	(52)	(52)
	1)								
BLACKISH CHANGE	-	52	51	52	52	51	52	51	52
	+	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	51	51	51	52	51	52	52	52
	+	1	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 11 - 60

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

TOTAL INCIDENCE OF GROSS PATHOLOGICAL FINDINGS

ANIMALS FOUND DEAD, KILLED IN EXTREMIS OR ON SCHEDULE
(TREATMENT PERIOD)

STUDY NO. 83004

ORGAN FINDINGS	SEX :	MALE				FEMALE			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	52	52	52	52	52	52	52	52
BRAIN	(NO. EXAMINED) :	(52)	(52)	(52)	(52)	(52)	(52)	(52)	(52)
	1)								
ADHESION	-	52	52	52	52	52	52	52	51
	+	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
DISCOLORATION	-	52	52	52	52	51	52	52	52
	+	0	0	0	0	0	0	0	0
	++	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0
EDEMA	-	52	52	52	51	52	52	51	52
	+	0	0	0	1	0	0	1	0
	++	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0
HEMORRHAGE	-	51	51	49	50	51	51	51	51
	+	0	0	0	2	1	0	1	0
	++	0	1	3	0	0	1	0	1
	+++	1	0	0	0	0	0	0	0
				*					
IMPRESSION	-	44	47	50	50	44	44	47	46
	+	6	2	2	1	6	7	5	5
	++	2	1	0	0	2	1	0	0
	+++	0	2	0	1	0	0	0	1

1) GRADE : - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* $P<0.05$

TABLE 12 - M - 1 - 1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) : 24				
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
PERITONEUM	(NO. EXAMINED) :	(1)	(0)	(0)	(2)
	1)				
NODULE	-	0	0	0	1
	+	0	0	0	0
	++	0	0	0	1
	+++	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
THYMUS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ENLARGEMENT	-	36	34	41	33
	+	0	0	1	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LYMPH NODES (GENERAL)	(NO. EXAMINED) :	(0)	(0)	(0)	(1)
	1)				
ENLARGEMENT	-	0	0	0	0
	+	0	0	0	0
	++	0	0	0	1
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LYMPH NODES (PULM.HILUS)	(NO. EXAMINED) :	(36)	(34)	(39)	(34)
	1)				
ENLARGEMENT	-	35	34	39	34
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0
REDDISH CHANGE	-	36	34	38	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LYMPH NODES (THYMIC)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)
	1)				
ENLARGEMENT	-	0	0	0	0
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LYMPH NODES (PAN.-DUO.)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)
	1)				
ENLARGEMENT	-	0	0	0	0
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
SPLEEN	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
IMPRESSION	-	36	34	42	33
	+	0	0	0	1
	++	0	0	0	0
	+++	0	0	0	0
ENLARGEMENT	-	31	27	36	28
	+	1	5	1	3
	++	1	2	3	2
	+++	3	0	2	1
NODULE	-	36	34	42	32
	+	0	0	0	2
	++	0	0	0	0
	+++	0	0	0	0
ROUGHNESS OF SURFACE	-	35	33	42	34
	+	1	1	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LUNG	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ENLARGEMENT	-	35	34	41	34
	+	1	0	1	0
	++	0	0	0	0
	+++	0	0	0	0
					*
NODULE	-	35	31	38	27
	+	1	3	2	4
	++	0	0	2	3
	+++	0	0	0	0
WHITISH PATCH	-	36	33	41	34
	+	0	0	1	0
	++	0	1	0	0
	+++	0	0	0	0
REDDISH CHANGE	-	36	34	41	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 1 - 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
LIVER	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
DISCOLORATION	-	35	32	39	34
	+	1	2	3	0
	++	0	0	0	0
	+++	0	0	0	0
ENLARGEMENT	-	32	34	41	33
	+	1	0	0	0
	++	0	0	0	1
	+++	3	0	1	0
MASS	-	35	34	42	34
	A	1	0	0	0
	B	0	0	0	0
	C	0	0	0	0
NODULE	-	34	31	40	31
	+	2	3	1	2
	++	0	0	1	1
	+++	0	0	0	0
WHITISH PATCH	-	36	32	40	33
	+	0	2	2	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
(CONTINUED)					
LIVER	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
REDDISH CHANGE	-	36	33	42	34
	+	0	1	0	0
	++	0	0	0	0
	+++	0	0	0	0
ROUGHNESS OF SURFACE	-	33	34	40	33
	+	3	0	2	1
	++	0	0	0	0
	+++	0	0	0	0
YELLOWISH CHANGE	-	36	33	42	32
	+	0	1	0	1
	++	0	0	0	1
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
PANCREAS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
NODULE	-	36	34	41	32
	+	0	0	0	2
	++	0	0	1	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
KIDNEYS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
CYST	-	36	34	41	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0
GRAYISH CHANGE	-	35	34	42	34
	+	0	0	0	0
	++	1	0	0	0
	+++	0	0	0	0
ROUGHNESS OF SURFACE	-	32	27	38	32
	+	4	6	4	1
	++	0	1	0	1
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
URINARY BLADDER	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
EXPANSION	-	36	34	41	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0
NODULE	-	36	34	41	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 14

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM). :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
TESTES	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ATROPHY	-	24	21	31	24
	+	10	12	7	5
	++	0	0	0	2
	+++	2	1	4	3
ENLARGEMENT	-	18	17	25	20
	+	6	3	3	3
	++	4	4	6	4
	+++	8	10	8	7
MASS	-	36	34	42	33
	A	0	0	0	0
	B	0	0	0	1
	C	0	0	0	0
NODULE	-	2	2	4	2
	+	0	0	0	0
	++	3	3	8	4
	+++	31	29	30	28
SOFTENING	-	33	32	39	27
	+	3	1	2	6
	++	0	0	0	0
	+++	0	1	1	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 15

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
EPIDIDYMIS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ATROPHY	-	36	34	41	34
	+	0	0	0	0
	++	0	0	0	0
	+++	0	0	1	0
NODULE	-	36	34	42	33
	+	0	0	0	0
	++	0	0	0	1
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 16

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
PROSTATIC GLAND	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ATROPHY	-	31	26	38	32
	+	1	1	1	1
	++	0	0	0	0
	+++	4	7	3	1
NODULE	-	34	34	38	33
	+	0	0	0	0
	++	0	0	0	0
	+++	2	0	4	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 17

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
SEMINAL VESICLE	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ATROPHY	-	7	7	15	8
	+	1	4	3	6
	++	4	3	3	5
	+++	24	20	21	15
ENLARGEMENT	-	34	34	42	33
	+	0	0	0	1
	++	0	0	0	0
	+++	2	0	0	0
NODULE	-	36	34	42	33
	+	0	0	0	0
	++	0	0	0	0
	+++	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 18

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
BULBOURETHRAL GLAND	(NO. EXAMINED) :	(1)	(0)	(2)	(0)
	1)				
ENLARGEMENT	-	0	0	0	0
	+	1	0	1	0
	++	0	0	1	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 19

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
PITUITARY GLAND	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
HEMORRHAGE	-	29	26	30	26
	+	7	3	4	7
	++	0	5	8	1
	+++	0	0	0	0
ENLARGEMENT	-	31	26	30	29
	+	2	2	2	3
	++	0	3	5	2
	+++	3	3	5	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 20

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
THYROID GLANDS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ENLARGEMENT	-	33	31	39	32
	+	0	1	1	1
	++	2	1	0	1
	+++	1	1	2	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 21

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
ADRENAL GLANDS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ENLARGEMENT	-	35	33	39	32
	+	0	0	2	0
	++	0	1	1	2
	+++	1	0	0	0
MASS	-	36	34	42	33
	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 22

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
SKIN	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ABSCESS	-	35	33	42	34
	+	0	0	0	0
	++	0	1	0	0
	+++	1	0	0	0
MASS	-	34	31	39	33
	A	1	1	3	1
	B	1	2	0	0
	C	0	0	0	0
NODULE	-	35	32	40	34
	+	1	1	0	0
	++	0	1	2	0
	+++	0	0	0	0
SCAB	-	35	34	41	34
	+	1	0	0	0
	++	0	0	1	0
	+++	0	0	0	0
ULCER	-	36	34	41	34
	+	0	0	0	0
	++	0	0	1	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 23

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
SKIN (SUBCUTIS)	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
MASS	-	31	27	36	28
	A	1	0	2	1
	B	0	2	2	1
	C	4	5	2	4
NODULE	-	35	33	40	34
	+	1	0	0	0
	++	0	1	2	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 24

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
MAMMARY GLAND	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
MASS	-	36	34	41	32
	A	0	0	0	1
	B	0	0	0	0
	C	0	0	1	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 25

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
EYE BALLS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
ATROPHY	-	36	33	42	34
	+	0	1	0	0
	++	0	0	0	0
	+++	0	0	0	0
GRAYISH CHANGE	-	35	31	42	34
	+	0	3	0	0
	++	0	0	0	0
	+++	1	0	0	0
HEMORRHAGE	-	36	34	41	34
	+	0	0	0	0
	++	0	0	0	0
	+++	0	0	1	0
ENLARGEMENT	-	35	34	42	34
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 26

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
HARDERIAN GLANDS	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
REDDISH CHANGE	-	36	34	41	34
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 1 - 27

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	36	34	42	34
BRAIN	(NO. EXAMINED) :	(36)	(34)	(42)	(34)
	1)				
IMPRESSION	-	34	33	40	34
	+	2	0	2	0
	++	0	0	0	0
	+++	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
MULTIPLE ORGANS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
DISCOLORATION	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
YELLOWISH CHANGE	-	2	0	0	1	1	5	5	0	13	12	5	16
	+	0	0	0	0	0	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
THORACIC CAVITY	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
HEMORRHAGE	-	2	0	0	1	1	4	4	0	13	13	5	17
	+	0	0	0	0	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	1	0	0	0	0	0	0
PLEURAL FLUID	-	2	0	0	1	1	5	5	0	12	12	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
ABDOMINAL CAVITY	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ASCITES (BLOODY)	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
ASCITES	-	2	0	0	1	1	5	5	0	12	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
HEMORRHAGE	-	2	0	0	1	0	* 5	3	0	13	13	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	1	0	2	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PLEURA	(NO. EXAMINED) :	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	1)												
MASS	-	0	0	0	0	0	0	0	0	0	0	0	0
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	1	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PERITONEUM	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(1)	(2)	(1)
	1)												
MASS	-	0	0	0	0	0	0	0	0	1	1	1	1
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	1	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	1	0
NODULE	-	0	0	0	0	0	0	1	0	0	0	1	0
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	1	1
	+++	0	0	0	0	0	0	0	0	1	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
HEART	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
DISCOLORATION	-	2	0	0	0	1	5	5	0	13	13	5	17
	+	0	0	0	1	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	2	0	0	1	1	5	5	0	12	12	5	17
	+	0	0	0	0	0	0	0	0	1	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
YELLOWISH CHANGE	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
THYMUS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	0	4*	4	0	13	12	5	17
	+	0	0	0	0	1	0	1	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (GENERAL)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(1)	(0)	(0)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	1	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (SUBMAXI.)	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	1	4	5	0	12	11	5	16
	+	0	0	0	0	0	0	0	0	1	1	0	1
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (PULM.HILUS)	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	1	3	5	0	12	12	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	1	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (HEPATIC)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)	(0)	(0)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (MESENT.)	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	1	4	4	0	13	12	5	15
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	1	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	1	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (RENAL.HILUS)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 14

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000.	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LYMPH NODES (POPLITEAL)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 15

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
SPLEEN	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
IMPRESSION	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	2	0	0	1	0	4	2	0	8	7	2	7
	+	0	0	0	0	0	0	0	0	1	1	0	2
	++	0	0	0	0	0	0	1	0	2	2	0	3
	+++	0	0	0	0	1	1	2	0	2	3	3	5
MASS	-	2	0	0	1	1	4	5	0	13	13	5	17
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	1	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	2	0	0	1	1	4	5	0	13	13	5	16
	+	0	0	0	0	0	1	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 16

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LUNG	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ADHESION	-	2	0	0	1	1	5	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
CONGESTION	-	2	0	0	1	1	4	5	0	12	13	3	14
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	1	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	2	2
CYST	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
DISCOLORATION	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
EMPHYSEMA	-	2	0	0	1	1	5	4	0	13	13	5	17
	+	0	0	0	0	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 17

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
(CONTINUED)													
LUNG	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
HEMORRHAGE	-	2	0	0	1	0	5*	4	0	12	13	4	17
	+	0	0	0	0	1	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	1	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	2	0	0	0	1	5	5	0	13	13	5	17
	A	0	0	0	1	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	5	5	0	12	12	4	14
	+	0	0	0	0	0	0	0	0	1	0	1	1
	++	0	0	0	0	0	0	0	0	0	1	0	2
	+++	0	0	0	0	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	2	0	0	1	1	4	5	0	11	12	5	14
	+	0	0	0	0	0	1	0	0	2	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 18

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LUNG (CONTINUED)	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
YELLOWISH CHANGE	-	2	0	0	1	1	5	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 19

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
TONGUE	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)
	1)												
MASS	-	0	0	0	0	0	0	0	0	0	0	0	0
	A	0	0	0	0	0	0	0	0	1	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	0	0	0	0	0	0	0	0	1	0	1	0
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 20

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
STOMACH	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
HEMORRHAGE	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
THICKENING	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 21

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
JEJUNUM	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
MASS	-	2	0	0	1	1	4	5	0	13	11	5	17
	A	0	0	0	0	0	0	0	0	0	1	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 22

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
COLON	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
NODULE	-	2	0	0	1	1	3	5	0	13	13	5	17
	+	0	0	0	0	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 23

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
RECTUM	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
CONSTIPATION	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	2	0	0	1	1	3	5	0	13	13	5	17
	+	0	0	0	0	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 24

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PAROTID GLANDS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	1	4	5	0	12	13	5	16
	+	0	0	0	0	0	0	0	0	1	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 25

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
LIVER	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ADHESION	-	2	0	0	1	1	5	4	0	13	13	5	17
	+	0	0	0	0	0	0	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ATROPHY	-	1	0	0	1	1	5	5	0	13	13	5	17
	+	1	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
DISCOLORATION	-	0	0	0	1	1	3	3	0	10	11	5	16
	+	2	0	0	0	0	1	0	0	2	0	0	0
	++	0	0	0	0	0	1	0	0	0	1	0	1
	+++	0	0	0	0	0	0	2	0	1	1	0	0
ENLARGEMENT	-	2	0	0	1	0	* 4	3	0	12	10	3	12
	+	0	0	0	0	0	1	1	0	0	0	1	2
	++	0	0	0	0	0	0	1	0	0	0	0	1
	+++	0	0	0	0	1	0	0	0	1	3	1	2
MASS	-	2	0	0	1	1	5	5	0	12	12	5	16
	A	0	0	0	0	0	0	0	0	1	1	0	1
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 26

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
(CONTINUED)													
LIVER	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
NODULE	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
WHITISH PATCH	-	2	0	0	1	1	5	5	0	13	13	4	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	2	0	0	1	0	4	* 5	0	11	11	4	13
	+	0	0	0	0	1	0	0	0	2	2	1	3
	++	0	0	0	0	0	1	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0
SOFTENING	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
YELLOWISH CHANGE	-	2	0	0	0	1	5	5	0	7	9	4	13
	+	0	0	0	1	0	0	0	0	6	2	0	2
	++	0	0	0	0	0	0	0	0	0	2	0	1
	+++	0	0	0	0	0	0	0	0	0	0	1	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 27

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PANCREAS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
DISCOLORATION	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	4	5	0	13	11	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	2	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 28

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
KIDNEYS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
BLACKISH CHANGE	-	2	0	0	1	1	4	4	0	12	11	5	17
	+	0	0	0	0	0	1	1	0	0	2	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
CYST	-	2	0	0	1	1	5	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
DISCOLORATION	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HYDRONEPHROSIS	-	2	0	0	1	1	5	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	2	0	0	1	1	5	4	0	12	13	5	17
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	1	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 29

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
(CONTINUED)													
KIDNEYS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
WHITISH PATCH	-	2	0	0	1	1	4	5	0	13	12	5	16
	+	0	0	0	0	0	1	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	2	0	0	1	1	5	5	0	8	10	3	14
	+	0	0	0	0	0	0	0	0	4	3	1	3
	++	0	0	0	0	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 30

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
URINARY BLADDER	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
EXPANSION	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	2	0	0	1	1	4	4	0	13	13	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	1	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
THICKENING	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 31

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
URETER	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	1)												
NODULE	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	1	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 32

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
TESTES	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ATROPHY	-	2	0	0	1	1	2	4	0	2	4	2	11 *
	+	0	0	0	0	0	1	1	0	6	1	2	3
	++	0	0	0	0	0	0	0	0	1	1	0	1
	+++	0	0	0	0	0	1	0	0	4	7	1	2
ENLARGEMENT	-	2	0	0	1	1	4	5	0	8	10	5	16 **
	+	0	0	0	0	0	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	4	2	0	0
NODULE	-	2	0	0	1	1	3	2	0	2	5	2	7
	+	0	0	0	0	0	0	2	0	1	2	1	1
	++	0	0	0	0	0	1	0	0	4	2	1	4
	+++	0	0	0	0	0	0	1	0	6	4	1	5
SOFTENING	-	2	0	0	1	1	3	4	0	13	13	5	17
	+	0	0	0	0	0	1	1	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05 ** P<0.01

TABLE 12 - M - 2 - 33

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
EPIDIDYMIS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ENLARGEMENT	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	2	0	0	1	1	4	5	0	13	13	4	17
	A	0	0	0	0	0	0	0	0	0	0	1	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 34

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PROSTATIC GLAND	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ATROPHY	-	2	0	0	1	1	4	5	0	12	11	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	2	0	1
MASS	-	2	0	0	1	1	4	4	0	13	13	5	17
	A	0	0	0	0	0	0	1	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 35

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
SEMINAL VESICLE	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ATROPHY	-	2	0	0	1	1	3	5	0	9	7	3	13
	+	0	0	0	0	0	0	0	0	3	3	2	3
	++	0	0	0	0	0	1	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	3	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 36

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
PITUITARY GLAND	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
EDEMA	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	2	0	0	1	1	3	5	0	8	8	3	13
	+	0	0	0	0	0	0	0	0	3	1	1	1
	++	0	0	0	0	0	1	0	0	0	3	0	1
	+++	0	0	0	0	0	1	0	0	2	1	1	2
ENLARGEMENT	-	2	0	0	1	1	3	5	0	7	9	4	12
	+	0	0	0	0	0	0	0	0	0	1	0	2
	++	0	0	0	0	0	1	0	0	1	2	0	0
	+++	0	0	0	0	0	1	0	0	5	1	1	3
MASS	-	2	0	0	1	1	5	5	0	13	12	5	16
	A	0	0	0	0	0	0	0	0	0	1	0	1
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	4	5	0	13	13	5	17
	+	0	0	0	0	0	1	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 37

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
(CONTINUED)													
PITUITARY GLAND	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
REDDISH CHANGE	-	2	0	0	1	1	5	5	0	13	13	5	14
	+	0	0	0	0	0	0	0	0	0	0	0	3
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 38

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
THYROID GLANDS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
CYST	-	2	0	0	1	1	4	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
GRAYISH CHANGE	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	2	0	0	1	1	4	5	0	12	13	4	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
NODULE	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 39

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
ADRENAL GLANDS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
ATROPHY	-	2	0	0	1	1	4	5	0	13	12	5	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
											*		*
ENLARGEMENT	-	2	0	0	1	1	4	3	0	9	13	4	16
	+	0	0	0	0	0	0	0	0	1	0	0	1
	++	0	0	0	0	0	0	2	0	2	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - M - 2 - 40

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
SKIN	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
MASS	-	2	0	0	1	1	4	5	0	12	12	4	16
	A	0	0	0	0	0	0	0	0	1	0	1	1
	B	0	0	0	0	0	0	0	0	0	1	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	2	0	0	1	1	4	5	0	13	12	4	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0
SCAB	-	2	0	0	1	1	4	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 41

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
SKIN (SUBCUTIS)	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
MASS	-	2	0	0	1	1	3	4	0	10	7	5	16
	A	0	0	0	0	0	0	0	0	0	2	0	0
	B	0	0	0	0	0	0	0	0	1	1	0	0
	C	0	0	0	0	0	1	1	0	2	3	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 42

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
MAMMARY GLAND	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
MASS	-	2	0	0	1	1	4	5	0	13	13	4	17
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 43

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
EYE BALLS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
GRAYISH CHANGE	-	2	0	0	0	1	4	5	0	13	13	5	16
	+	0	0	0	1	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
HEMORRHAGE	-	2	0	0	1	1	4	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 44

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
HARDERIAN GLANDS	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(4)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
REDDISH CHANGE	-	2	0	0	1	1	4	5	0	12	13	5	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - M - 2 - 45

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS MALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-736			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	2	0	0	1	1	5	5	0	13	13	5	17
BRAIN	(NO. EXAMINED) :	(2)	(0)	(0)	(1)	(1)	(5)	(5)	(0)	(13)	(13)	(5)	(17)
	1)												
EDEMA	-	2	0	0	1	1	5	5	0	13	13	5	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	2	0	0	1	0	4	3	0	13	13	4	15
	+	0	0	0	0	0	0	0	0	0	0	0	2
	++	0	0	0	0	0	1	2	0	0	0	1	0
	+++	0	0	0	0	1	0	0	0	0	0	0	0
IMPRESSION	-	2	0	0	1	1	4	5	0	7	10	5	15
	+	0	0	0	0	0	0	0	0	4	2	0	1
	++	0	0	0	0	0	1	0	0	2	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
HEART	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
NODULE	-	31	32	31	34
	+	0	1	0	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
SPLEEN	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
ENLARGEMENT	-	25	28	25	26
	+	2	3	3	2
	++	2	2	3	5
	+++	2	0	0	2
NODULE	-	31	32	31	35
	+	0	1	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
LUNG	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
HEMORRHAGE	-	31	33	31	34
	+	0	0	0	0
	++	0	0	0	1
	+++	0	0	0	0
NODULE	-	29	32	30	35
	+	2	1	1	0
	++	0	0	0	0
	+++	0	0	0	0
WHITISH PATCH	-	31	33	31	34
	+	0	0	0	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
COLON	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
NODULE	-	31	32	31	35
	+	0	0	0	0
	++	0	1	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
LIVER	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
DISCOLORATION	-	30	33	31	35
	+	0	0	0	0
	++	0	0	0	0
	+++	1	0	0	0
ENLARGEMENT	-	29	32	30	32
	+	0	1	0	2
	++	2	0	0	0
	+++	0	0	1	1
MASS	-	30	33	31	34
	A	1	0	0	0
	B	0	0	0	1
	C	0	0	0	0
NODULE	-	29	33	27	28
	+	2	0	4	7
	++	0	0	0	0
	+++	0	0	0	0
WHITISH PATCH	-	31	33	30	35
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
(CONTINUED)					
LIVER	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
REDDISH CHANGE	-	30	33	29	35
	+	1	0	1	0
	++	0	0	1	0
	+++	0	0	0	0
REDDISH PATCH	-	30	31	31	35
	+	1	2	0	0
	++	0	0	0	0
	+++	0	0	0	0
ROUGHNESS OF SURFACE	-	30	33	30	32
	+	0	0	1	0
	++	0	0	0	0
	+++	1	0	0	3
YELLOWISH CHANGE	-	30	30	30	35
	+	1	1	1	0
	++	0	2	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
PANCREAS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
MASS	-	31	33	30	35
	A	0	0	0	0
	B	0	0	1	0
	C	0	0	0	0
NODULE	-	30	33	31	34
	+	1	0	0	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
KIDNEYS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
IMPRESSION	-	31	32	31	34
	+	0	1	0	1
	++	0	0	0	0
	+++	0	0	0	0
ROUGHNESS OF SURFACE	-	27	31	29	34
	+	2	2	2	1
	++	2	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
OVARIES	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
CYST	-	28	32	29	34
	+	3	1	1	1
	++	0	0	0	0
	+++	0	0	1	0
EDEMA	-	31	32	31	35
	+	0	1	0	0
	++	0	0	0	0
	+++	0	0	0	0
ENLARGEMENT	-	31	33	31	34
	+	0	0	0	1
	++	0	0	0	0
	+++	0	0	0	0
NODULE	-	31	32	31	35
	+	0	0	0	0
	++	0	1	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
UTERUS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
HEMORRHAGE	-	30	32	31	35
	+	1	1	0	0
	++	0	0	0	0
	+++	0	0	0	0
ENLARGEMENT	-	28	30	31	31
	+	2	2	0	4
	++	1	0	0	0
	+++	0	1	0	0
MASS	-	29	32	31	34
	A	0	1	0	0
	B	1	0	0	0
	C	1	0	0	1
NODULE	-	30	33	31	35
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
CLITORAL GLAND	(NO. EXAMINED) :	(1)	(0)	(3)	(3)
	1)				
MASS	-	0	0	1	1
	A	0	0	1	1
	B	0	0	0	1
	C	1	0	1	0
NODULE	-	1	0	2	2
	+	0	0	1	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
PITUITARY GLAND	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
CYST	-	30	33	31	35
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0
HEMORRHAGE	-	17	18	18	22
	+	10	9	12	10
	++	4	6	0	3
	+++	0	0	1	0
ENLARGEMENT	-	22	21	24	27
	+	4	3	4	5
	++	2	3	2	1
	+++	3	6	1	2
MASS	-	30	33	31	35
	A	1	0	0	0
	B	0	0	0	0
	C	0	0	0	0
REDDISH CHANGE	-	31	33	30	34
	+	0	0	1	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
(CONTINUED)					
PITUITARY GLAND	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
REDDISH PATCH	-	31	32	31	34
	+	0	1	0	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 14

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
THYROID GLANDS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
GRAYISH CHANGE	-	30	33	31	35
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0
			*		
ENLARGEMENT	-	27	33	29	32
	+	4	0	2	2
	++	0	0	0	1
	+++	0	0	0	0
NODULE	-	30	33	31	35
	+	1	0	0	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - F - 1 - 15

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
ADRENAL GLANDS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
ENLARGEMENT	-	31	31	31	32
	+	0	1	0	3
	++	0	0	0	0
	+++	0	1	0	0
REDDISH CHANGE	-	31	33	31	34
	+	0	0	0	1
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 16

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
SKIN	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
MASS	-	30	33	31	34
	A	1	0	0	1
	B	0	0	0	0
	C	0	0	0	0
NODULE	-	30	32	31	35
	+	1	0	0	0
	++	0	1	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 17

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
SKIN (SUBCUTIS)	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
MASS	-	31	31	30	34
	A	0	0	0	0
	B	0	0	1	1
	C	0	2	0	0
NODULE	-	31	33	30	35
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 18

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
MAMMARY GLAND	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
MASS	-	27	28	21	32
	A	1	0	2	1
	B	1	1	6	2
	C	2	4	2	0
NODULE	-	31	33	30	35
	+	0	0	1	0
	++	0	0	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 19

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
EYE BALLS	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
GRAYISH CHANGE	-	28	33	28	33
	+	1	0	2	1
	++	0	0	1	0
	+++	2	0	0	1
HEMORRHAGE	-	31	33	31	34
	+	0	0	0	0
	++	0	0	0	0
	+++	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 1 - 20

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS KILLED ON SCHEDULE

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(MONTHS) :	24			
	LEVEL (PPM) :	0	10	100	1000
	NO. NECROPSIED :	31	33	31	35
BRAIN	(NO. EXAMINED) :	(31)	(33)	(31)	(35)
	1)				
IMPRESSION	-	27	31	30	33
	+	3	1	1	2
	++	1	1	0	0
	+++	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 1

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
MULTIPLE ORGANS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
DISCOLORATION	-	1	0	0	0	0	0	2	0	19	19	19	15
	+	0	0	0	0	1	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
YELLOWISH CHANGE	-	1	0	0	0	1	0	2	0	18	18	16	17
	+	0	0	0	0	0	0	0	0	1	0	2	0
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 2

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
THORACIC CAVITY	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
HEMORRHAGE	-	1	0	0	0	1	0	2	0	19	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
PLEURAL FLUID (BLOODY)	-	1	0	0	0	1	0	2	0	18	19	19	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
PLEURAL FLUID	-	1	0	0	0	1	0	2	0	18	18	19	16
	+	0	0	0	0	0	0	0	0	1	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 3

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
ABDOMINAL CAVITY	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ASCITES (BLOODY)	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
ASCITES	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
HEMORRHAGE	-	1	0	0	0	1	0	2	0	16	19	17	17
	+	0	0	0	0	0	0	0	0	2	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 4

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
PERITONEUM	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(1)	(2)
	1)												
MASS	-	0	0	0	0	0	0	0	0	1	0	0	0
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	1
	C	0	0	0	0	0	0	0	0	0	0	1	1
NODULE	-	0	0	0	0	0	0	0	0	0	0	1	2
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 5

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
HEART	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
DISCOLORATION	-	1	0	0	0	1	0	2	0	19	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
WHITISH PATCH	-	1	0	0	0	1	0	2	0	19	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 6

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
THYMUS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
BLACKISH CHANGE	-	0	0	0	0	1	0	2	0	18	19	19	17
	+	1	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 7

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (GENERAL)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)	(0)	(0)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 8

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (SUBMAXI.)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ENLARGEMENT	-	1	0	0	0	1	0	2	0	16	17	17	17
	+	0	0	0	0	0	0	0	0	2	1	2	0
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 9

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (PULM.HILUS)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(1)	(0)	(16)	(19)	(19)	(17)
	1)												
ENLARGEMENT	-	1	0	0	0	1	0	1	0	16	18	16	17
	+	0	0	0	0	0	0	0	0	0	1	3	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 10

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (THYMIC)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(2)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	1	1
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 11

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (MESENT.)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
HEMORRHAGE	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	17	16	17	16
	+	0	0	0	0	0	0	0	0	1	3	1	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 12

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (PAN.-DUO.)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 13

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LYMPH NODES (ILIAC)	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)
	1)												
ENLARGEMENT	-	0	0	0	0	0	0	0	0	0	0	0	0
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 14

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
SPLEEN	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ATROPHY	-	1	0	0	0	1	0	2	0	19	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
ENLARGEMENT	-	1	0	0	0	0	0	1	0	11	6	8	9
	+	0	0	0	0	1	0	0	0	0	0	1	1
	++	0	0	0	0	0	0	1	0	3	3	3	2
	+++	0	0	0	0	0	0	0	0	5	10	7	5
MASS	-	1	0	0	0	1	0	2	0	19	18	18	16
	A	0	0	0	0	0	0	0	0	0	1	0	1
	B	0	0	0	0	0	0	0	0	0	0	1	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	1	0	0	0	1	0	2	0	18	18	19	16
	+	0	0	0	0	0	0	0	0	1	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
WHITISH PATCH	-	1	0	0	0	1	0	2	0	19	17	19	17
	+	0	0	0	0	0	0	0	0	0	2	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 15

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
(CONTINUED)													
SPLEEN	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ROUGHNESS OF SURFACE	-	1	0	0	0	1	0	2	0	19	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 16

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LUNG	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
CONGESTION	-	1	0	0	0	1	0	2	0	18	19	17	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	2	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
CYST	-	1	0	0	0	1	0	2	0	19	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
DISCOLORATION	-	1	0	0	0	1	0	2	0	19	17	17	16
	+	0	0	0	0	0	0	0	0	0	2	1	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0
HEMORRHAGE	-	1	0	0	0	1	0	2	0	15	16	13	17
	+	0	0	0	0	0	0	0	0	2	2	2	0
	++	0	0	0	0	0	0	0	0	1	0	4	0
	+++	0	0	0	0	0	0	0	0	1	1	0	0
NODULE	-	1	0	0	0	1	0	2	0	19	17	19	16
	+	0	0	0	0	0	0	0	0	0	2	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 17

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
(CONTINUED)													
LUNG	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
WHITISH PATCH	-	1	0	0	0	1	0	2	0	18	18	18	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	1	0	0	0
REDDISH CHANGE	-	1	0	0	0	1	0	2	0	19	16	19	17
	+	0	0	0	0	0	0	0	0	0	3	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 18

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
ORAL CAVITY	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(0)
	1)												
MASS	-	0	0	0	0	0	0	0	0	0	0	0	0
	A	0	0	0	0	0	0	0	0	0	0	1	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 19

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
TONGUE	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(2)	(0)	(0)	(0)
	1)												
ABSCESS	-	1	0	0	0	0	0	0	0	1	0	0	0
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	0	0	0	0	0	0	0	0	1	0	0	0
	A	1	0	0	0	0	0	0	0	1	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 20

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
COLON	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ENLARGEMENT OF PEYER'S PATCH	-	1	0	0	0	1	0	2	0	18	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 21

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
RECTUM	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ADHESION	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
CONSTIPATION	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 22

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
LIVER	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ATROPHY	-	1	0	0	0	1	0	2	0	19	18	19	16
	+	0	0	0	0	0	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
CONGESTION	-	1	0	0	0	1	0	2	0	19	18	18	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0
DISCOLORATION	-	1	0	0	0	1	0	1	0	18	18	12	13
	+	0	0	0	0	0	0	1	0	0	0	3	3
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	1	1	3	1
ENLARGEMENT	-	1	0	0	0	0	0	2	0	17	15	16	15
	+	0	0	0	0	0	0	0	0	2	3	1	2
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	1	0	0	0	0	1	1	0
MASS	-	1	0	0	0	1	0	2	0	19	19	18	17
	A	0	0	0	0	0	0	0	0	0	0	1	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 23

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
(CONTINUED)													
LIVER	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
NODULE	-	1	0	0	0	0	0	2	0	15	* 19	15	17
	+	0	0	0	0	0	0	0	0	2	0	3	0
	++	0	0	0	0	0	0	0	0	2	0	0	0
	+++	0	0	0	0	1	0	0	0	0	0	1	0
WHITISH PATCH	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	1	0	0	0	1	0	2	0	19	18	19	16
	+	0	0	0	0	0	0	0	0	0	1	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	1	0	0	0	1	0	2	0	13	10	13	13
	+	0	0	0	0	0	0	0	0	2	7	3	3
	++	0	0	0	0	0	0	0	0	2	0	1	0
	+++	0	0	0	0	0	0	0	0	2	2	2	1
YELLOWISH CHANGE	-	1	0	0	0	1	0	2	0	15	14	14	12
	+	0	0	0	0	0	0	0	0	2	2	2	4
	++	0	0	0	0	0	0	0	0	1	1	1	1
	+++	0	0	0	0	0	0	0	0	1	2	2	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - F - 2 - 24

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
PANCREAS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
NODULE	-	1	0	0	0	1	0	2	0	18	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 25

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
KIDNEYS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
BLACKISH CHANGE	-	1	0	0	0	0	0	2	0	17	19	18	17
	+	0	0	0	0	1	0	0	0	1	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
CYST	-	1	0	0	0	1	0	2	0	18	18	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
IMPRESSION	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
WHITISH PATCH	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ROUGHNESS OF SURFACE	-	1	0	0	0	1	0	2	0	17	17	17	16
	+	0	0	0	0	0	0	0	0	1	2	0	1
	++	0	0	0	0	0	0	0	0	0	0	1	0
	+++	0	0	0	0	0	0	0	0	0	0	1	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 26

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
URINARY BLADDER	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
CALCULOSIS	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0
EXPANSION	-	1	0	0	0	1	0	2	0	18	19	19	15
	+	0	0	0	0	0	0	0	0	0	0	0	2
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	1	0	0	0	1	0	2	0	18	18	19	17
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	1	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
THICKENING	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 27

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
OVARIES	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ATROPHY	-	1	0	0	0	1	0	2	0	17	19	19	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
BLACKISH CHANGE	-	1	0	0	0	1	0	2	0	17	19	19	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
CYST	-	1	0	0	0	1	0	2	0	17	19	19	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 28

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
UTERUS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
HEMORRHAGE	-	1	0	0	0	0	0	2	0	18	19	19	17
	+	0	0	0	0	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	16	18	16	16
	+	0	0	0	0	0	0	0	0	1	0	3	1
	++	0	0	0	0	0	0	0	0	1	1	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	1	0	0	0	1	0	2	0	18	19	16	15
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	3	2
NODULE	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 29

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
VAGINA	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ADHESION	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	17	19	18	17
	+	0	0	0	0	0	0	0	0	1	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	1	0	0	0	1	0	2	0	18	19	19	15
	A	0	0	0	0	0	0	0	0	0	0	0	1
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 30

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
CLITORAL GLAND	(NO. EXAMINED) :	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	(1)	(1)	(2)
	1)												
MASS	-	0	0	0	0	0	0	0	0	0	0	0	0
	A	0	0	0	0	0	0	0	0	1	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	1	1	2

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 31

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
PITUITARY GLAND	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
DISCOLORATION	-	1	0	0	0	0	0	2	0	19	19	19	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	1	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	1	0	0	0	1	0	1	0	7	8	11	9
	+	0	0	0	0	0	0	0	0	8	8	4	5
	++	0	0	0	0	0	0	0	0	4	3	0	3
	+++	0	0	0	0	0	0	1	0	0	0	4	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	14	* 7	10	11
	+	0	0	0	0	0	0	0	0	3	4	4	1
	++	0	0	0	0	0	0	0	0	0	3	1	4
	+++	0	0	0	0	0	0	0	0	2	5	4	1
MASS	-	1	0	0	0	1	0	1	0	17	18	18	15
	A	0	0	0	0	0	0	1	0	2	1	1	2
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	1	0	0	0	1	0	2	0	19	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.
* P<0.05

TABLE 12 - F - 2 - 32

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
(CONTINUED)													
PITUITARY GLAND	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
REDDISH CHANGE	-	1	0	0	0	1	0	2	0	18	18	17	17
	+	0	0	0	0	0	0	0	0	1	0	2	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 33

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
THYROID GLANDS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
DISCOLORATION	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
ENLARGEMENT	-	1	0	0	0	1	0	2	0	18	18	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 34

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
ADRENAL GLANDS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
ENLARGEMENT	-	1	0	0	0	1	0	2	0	17	18	17	16
	+	0	0	0	0	0	0	0	0	1	1	2	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
MASS	-	1	0	0	0	1	0	2	0	17	19	19	16
	A	0	0	0	0	0	0	0	0	0	0	0	1
	B	0	0	0	0	0	0	0	0	1	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	1	0	0	0	1	0	2	0	18	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
WHITISH PATCH	-	1	0	0	0	1	0	2	0	17	19	19	17
	+	0	0	0	0	0	0	0	0	1	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 35

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
MUSCLE (Q. FEMORIS)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
MASS	-	1	0	0	0	1	0	2	0	18	19	19	16
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 36

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
SKIN	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
MASS	-	1	0	0	0	1	0	2	0	18	18	18	17
	A	0	0	0	0	0	0	0	0	0	1	0	0
	B	0	0	0	0	0	0	0	0	0	0	1	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
NODULE	-	1	0	0	0	0	0	2	0	18	19	19	17
	+	0	0	0	0	1	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 37

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
SKIN (SUBCUTIS)	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
EDEMA	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1
MASS	-	1	0	0	0	1	0	2	0	18	19	19	16
	A	0	0	0	0	0	0	0	0	0	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	1
NODULE	-	1	0	0	0	1	0	2	0	18	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 38

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
MAMMARY GLAND	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ENLARGEMENT	-	1	0	0	0	1	0	2	0	19	17	18	17
	+	0	0	0	0	0	0	0	0	0	1	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	1	0	0
MASS	-	1	0	0	0	1	0	2	0	16	16	15	12
	A	0	0	0	0	0	0	0	0	2	0	1	0
	B	0	0	0	0	0	0	0	0	1	1	0	0
	C	0	0	0	0	0	0	0	0	0	2	3	5

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 39

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
EYE BALLS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
GRAYISH CHANGE	-	1	0	0	0	1	0	2	0	18	19	19	15
	+	0	0	0	0	0	0	0	0	0	0	0	2
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 40

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
HARDERIAN GLANDS	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(18)	(19)	(19)	(17)
	1)												
BLACKISH CHANGE	-	1	0	0	0	1	0	2	0	18	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 41

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
BRAIN	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
ADHESION	-	1	0	0	0	1	0	2	0	19	19	19	16
	+	0	0	0	0	0	0	0	0	0	0	0	1
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
DISCOLORATION	-	1	0	0	0	0	0	2	0	19	19	19	17
	+	0	0	0	0	0	0	0	0	0	0	0	0
	++	0	0	0	0	1	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
EDEMA	-	1	0	0	0	1	0	2	0	19	19	18	17
	+	0	0	0	0	0	0	0	0	0	0	1	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
HEMORRHAGE	-	1	0	0	0	1	0	2	0	18	18	18	16
	+	0	0	0	0	0	0	0	0	1	0	1	0
	++	0	0	0	0	0	0	0	0	0	1	0	1
	+++	0	0	0	0	0	0	0	0	0	0	0	0
IMPRESSION	-	1	0	0	0	1	0	1	0	15	13	16	13
	+	0	0	0	0	0	0	1	0	3	6	3	3
	++	0	0	0	0	0	0	0	0	1	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	1

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.

TABLE 12 - F - 2 - 42

CHRONIC AND CARCINOGENIC INHALATION TOXICOLOGICAL STUDY
OF METHANOL IN FISCHER RAT

FREQUENCY AND DISTRIBUTION OF GROSS PATHOLOGICAL FINDINGS FEMALE

ANIMALS FOUND DEAD OR KILLED IN EXTREMIS

STUDY NO. 83004

ORGAN FINDINGS	PERIOD(DAYS) :	1-364				365-546				547-743			
	LEVEL (PPM) :	0	10	100	1000	0	10	100	1000	0	10	100	1000
	NO. NECROPSIED :	1	0	0	0	1	0	2	0	19	19	19	17
(CONTINUED)													
BRAIN	(NO. EXAMINED) :	(1)	(0)	(0)	(0)	(1)	(0)	(2)	(0)	(19)	(19)	(19)	(17)
	1)												
MASS	-	1	0	0	0	1	0	2	0	17	19	19	17
	A	0	0	0	0	0	0	0	0	2	0	0	0
	B	0	0	0	0	0	0	0	0	0	0	0	0
	C	0	0	0	0	0	0	0	0	0	0	0	0
REDDISH CHANGE	-	1	0	0	0	1	0	2	0	19	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0
SOFTENING	-	1	0	0	0	1	0	2	0	19	18	19	17
	+	0	0	0	0	0	0	0	0	0	1	0	0
	++	0	0	0	0	0	0	0	0	0	0	0	0
	+++	0	0	0	0	0	0	0	0	0	0	0	0

1) GRADE - , NEGATIVE; + , SLIGHT; ++ , MODERATE; +++ , SEVERE.
GRADE OF MASS : A , SMALL AND/OR SINGULAR; B , MEDIAL AND/OR SPORADIC; C , LARGE AND/OR MULTIPLE.