

Figure 2A. Food consumption in male F344 rats (1-year toxicity study)

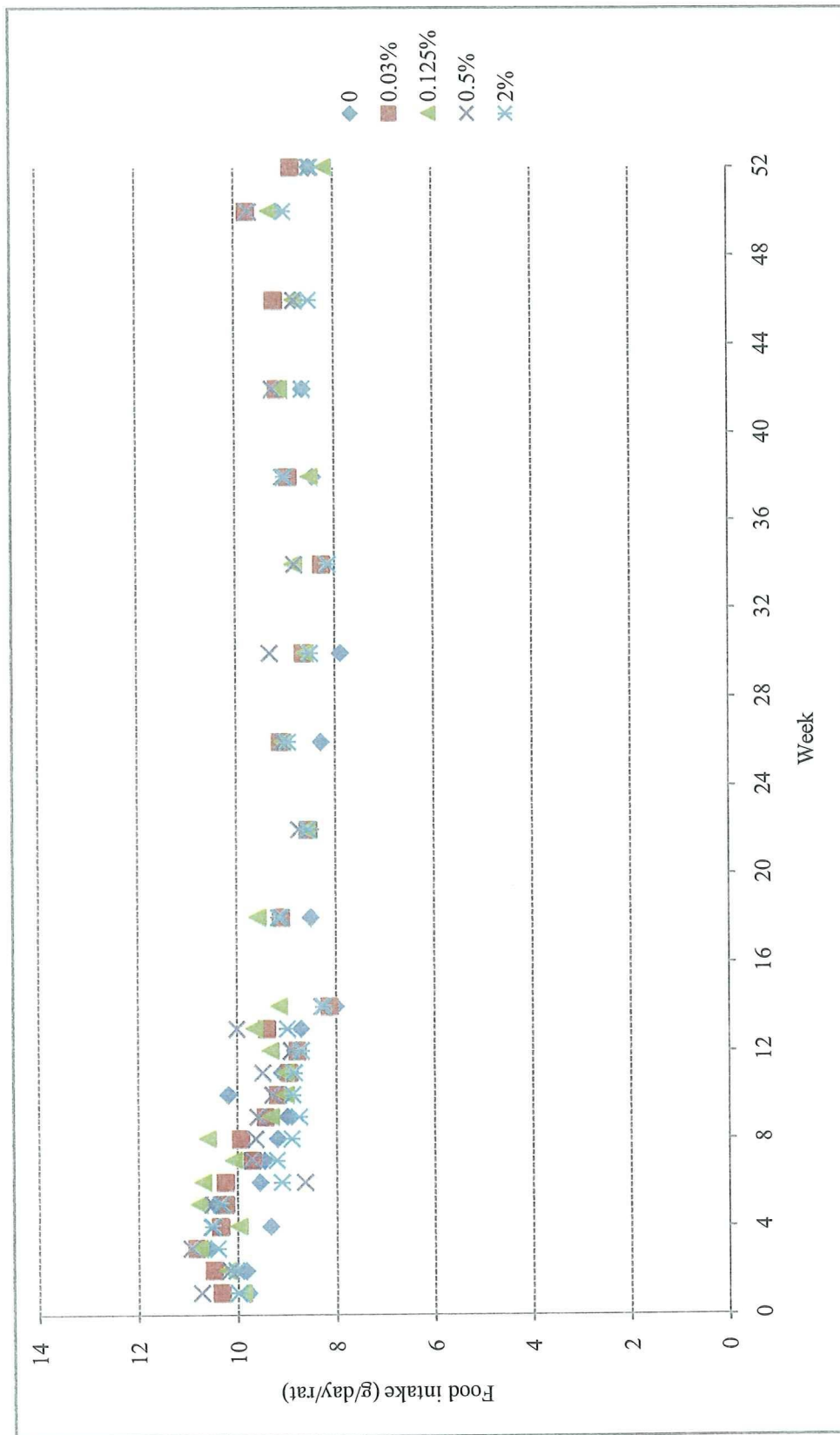


Figure 2B. Food consumption in female F344 rats (1-year toxicity study)

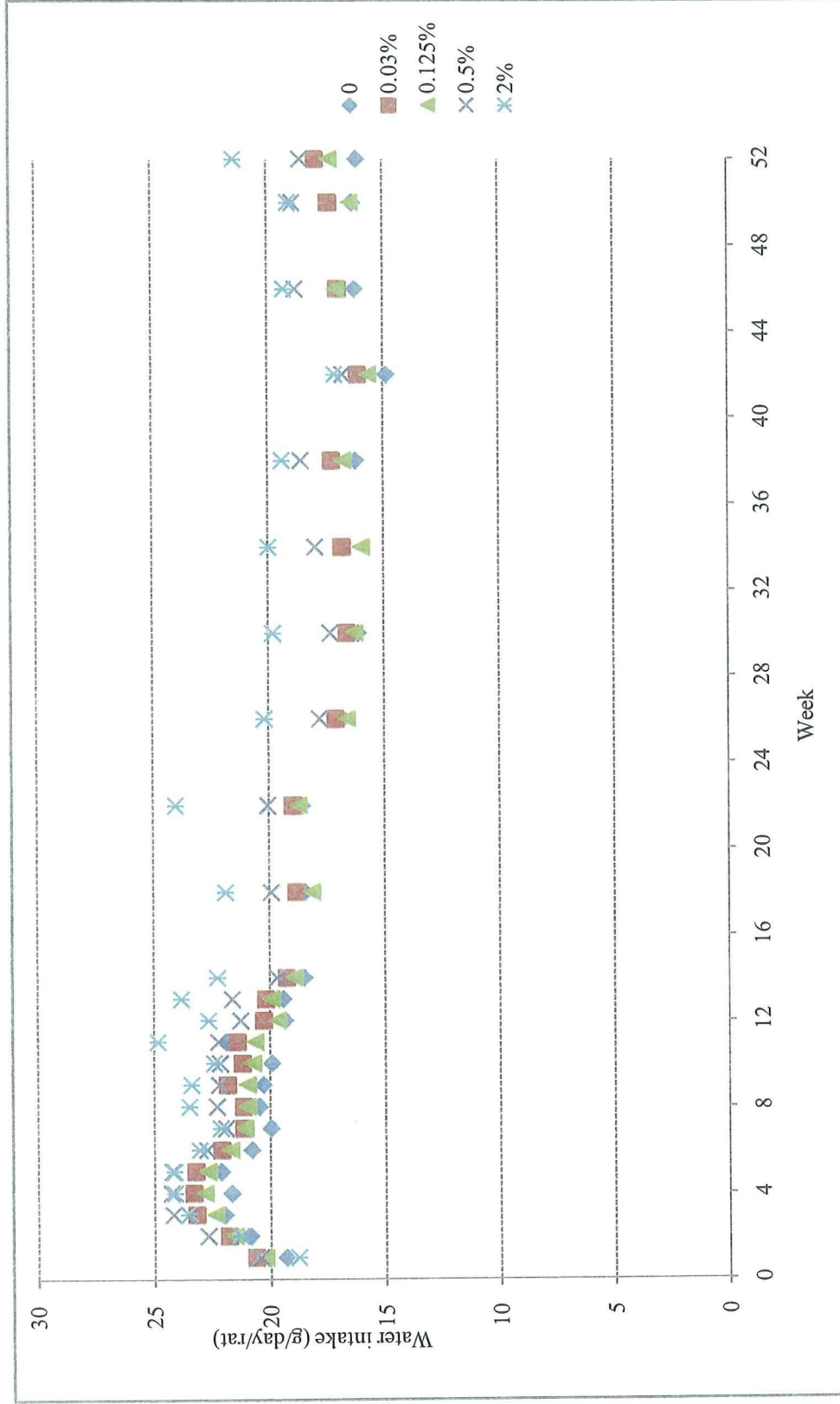


Figure 3A. Water consumption in male F344 rats (1-year toxicity study)

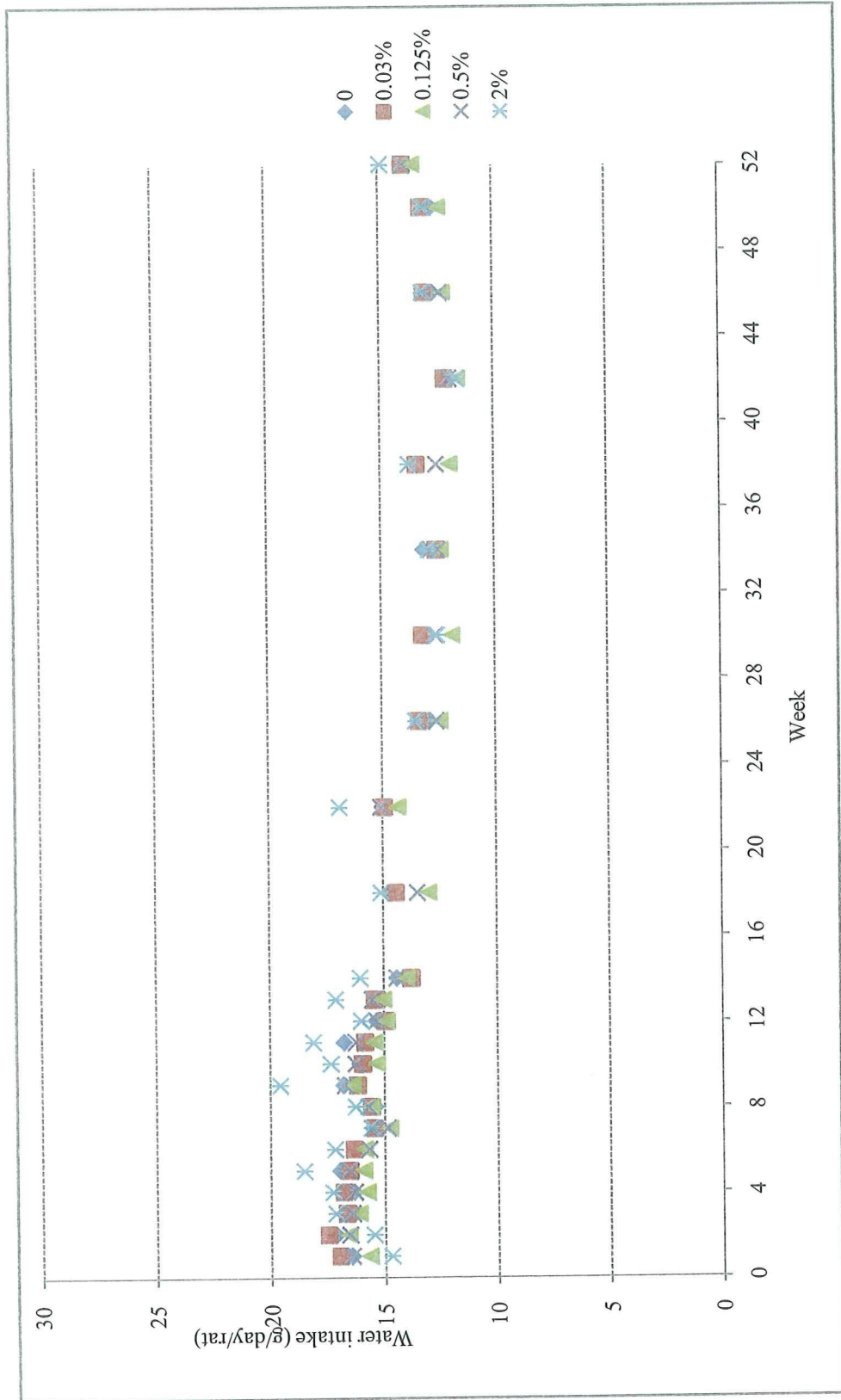


Figure 3B. Water consumption in female F344 rats (1-year toxicity study)

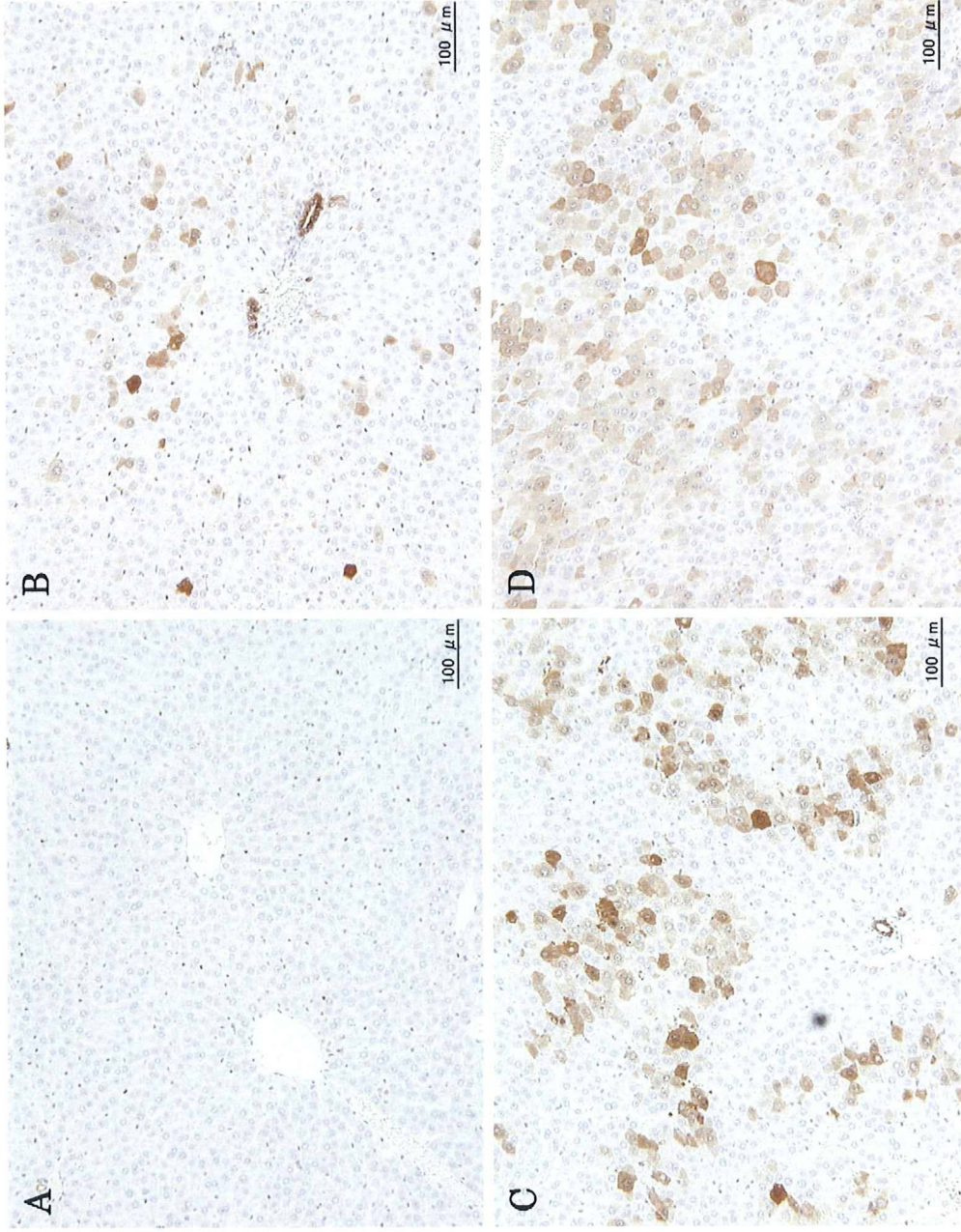


Figure 4 Expression of GST-P in livers of female rats. A, Class 0; B, Class 1; C, Class 2; D, Class 3.

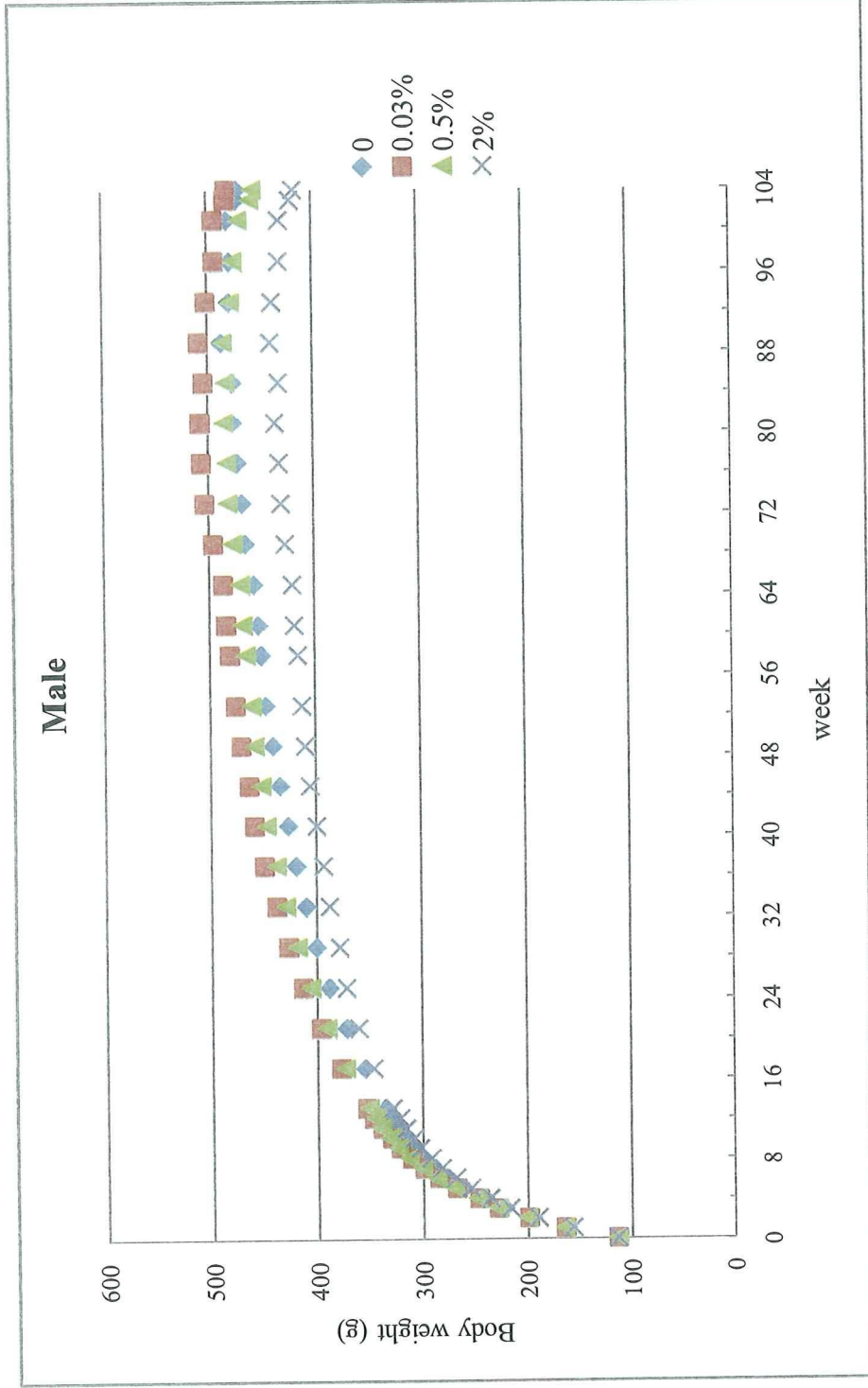


Figure 5A. Body weight curves of male F344 rats (2-year carcinogenicity study)

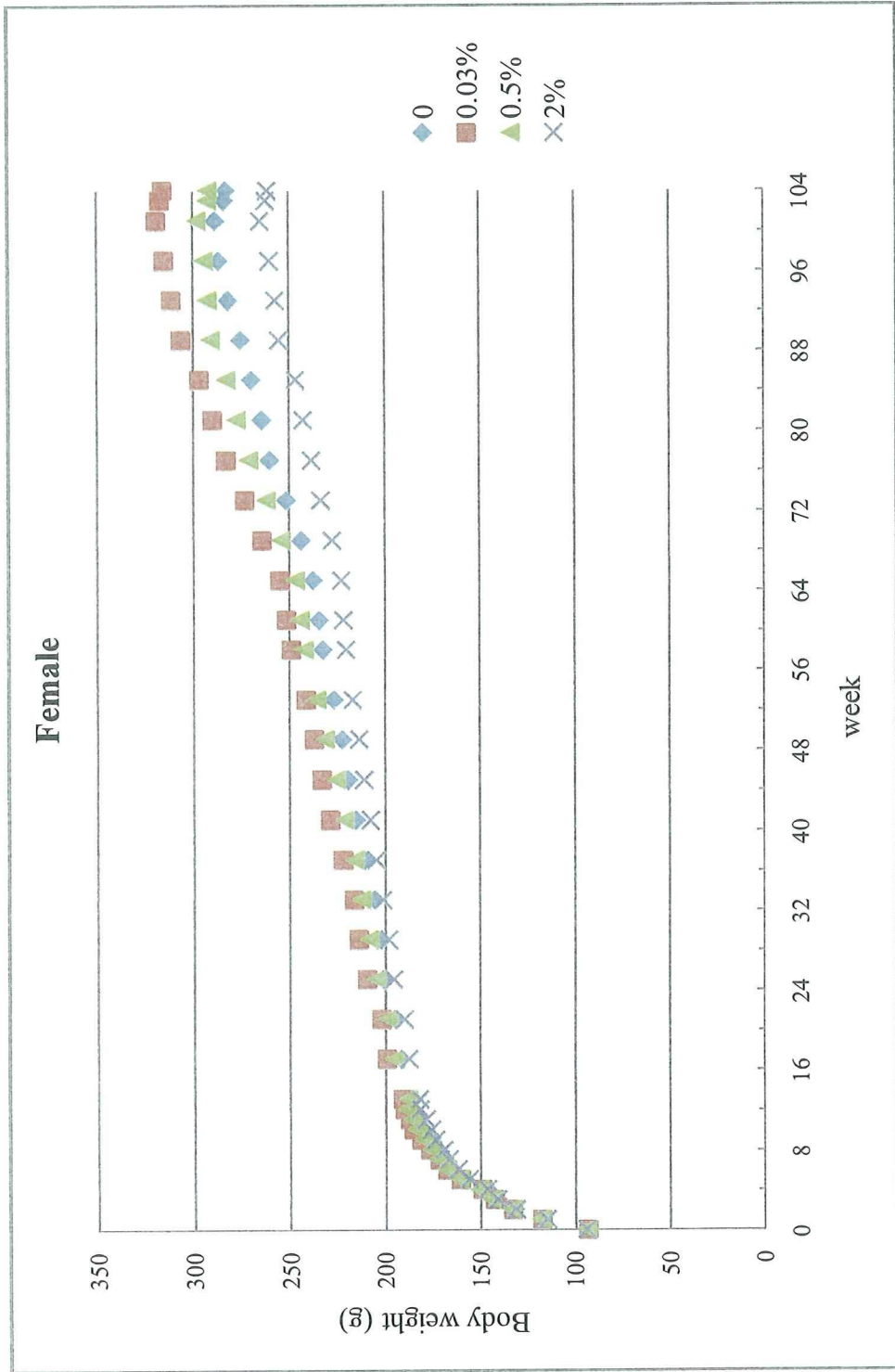


Figure 5B. Body weight curves of female F344 rats (2-year carcinogenicity study)

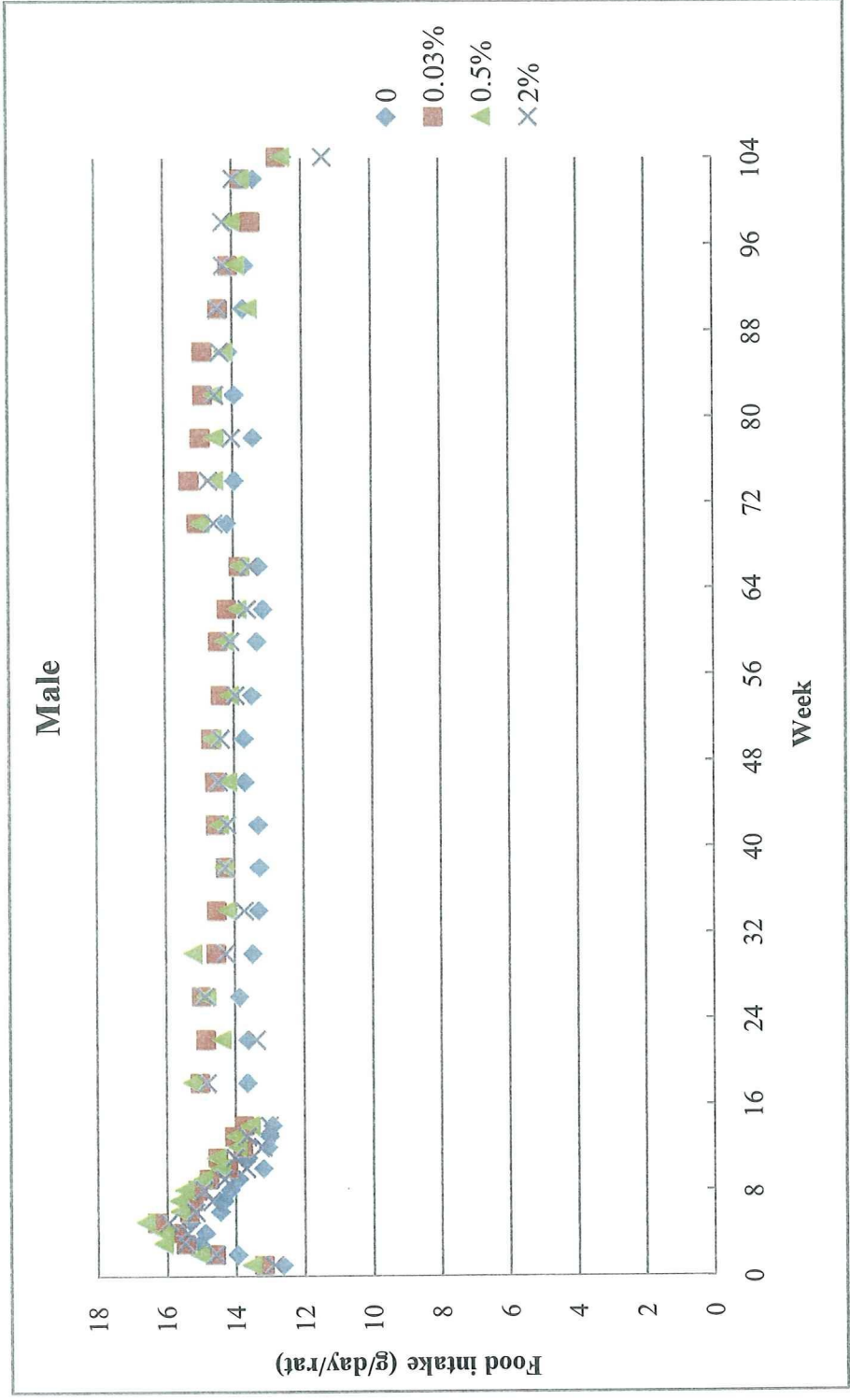


Figure 6A. Food intake in male F344 rats (2-year carcinogenicity study)

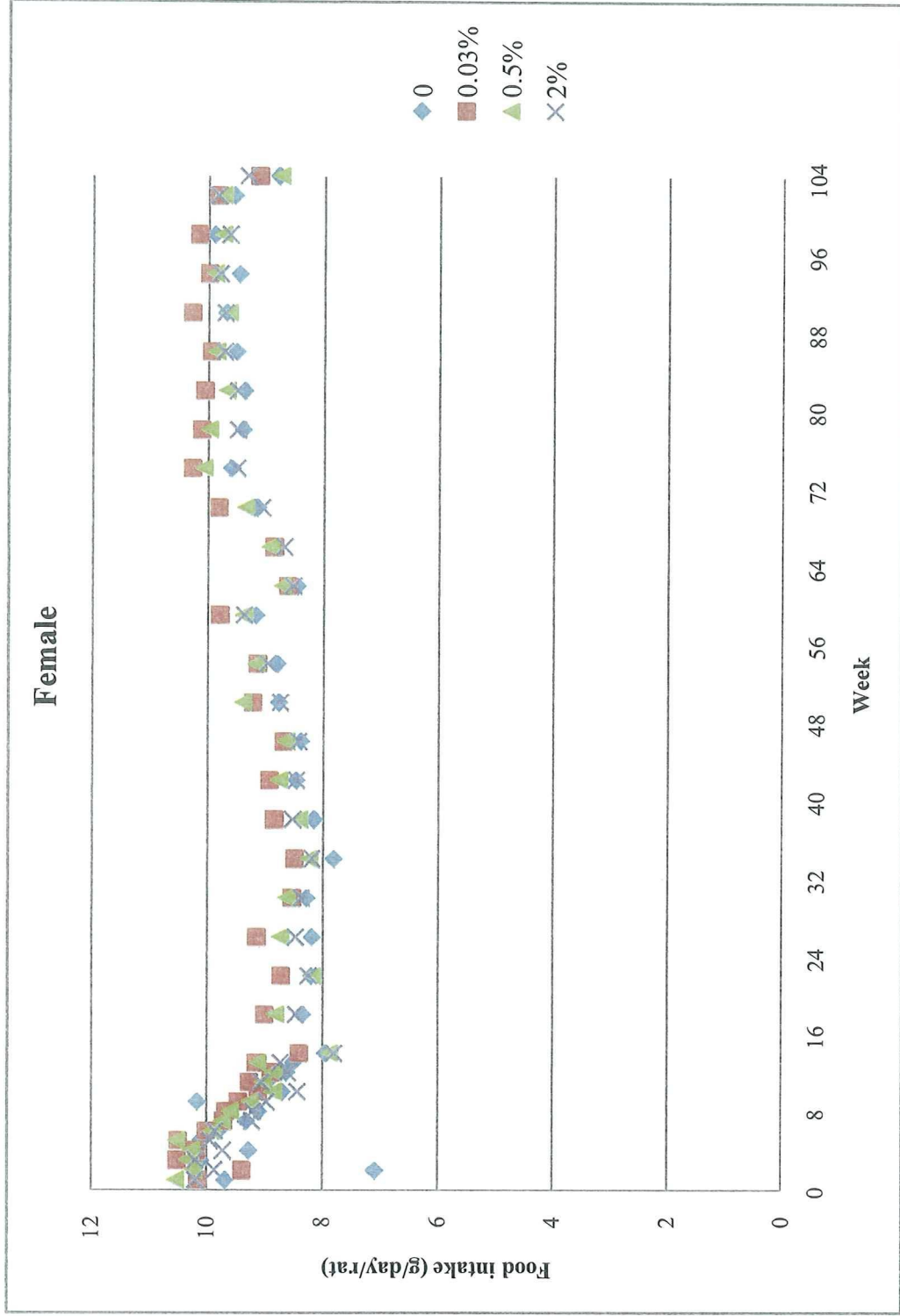


Figure 6B. Food intake in female F344 rats (2-year carcinogenicity study)

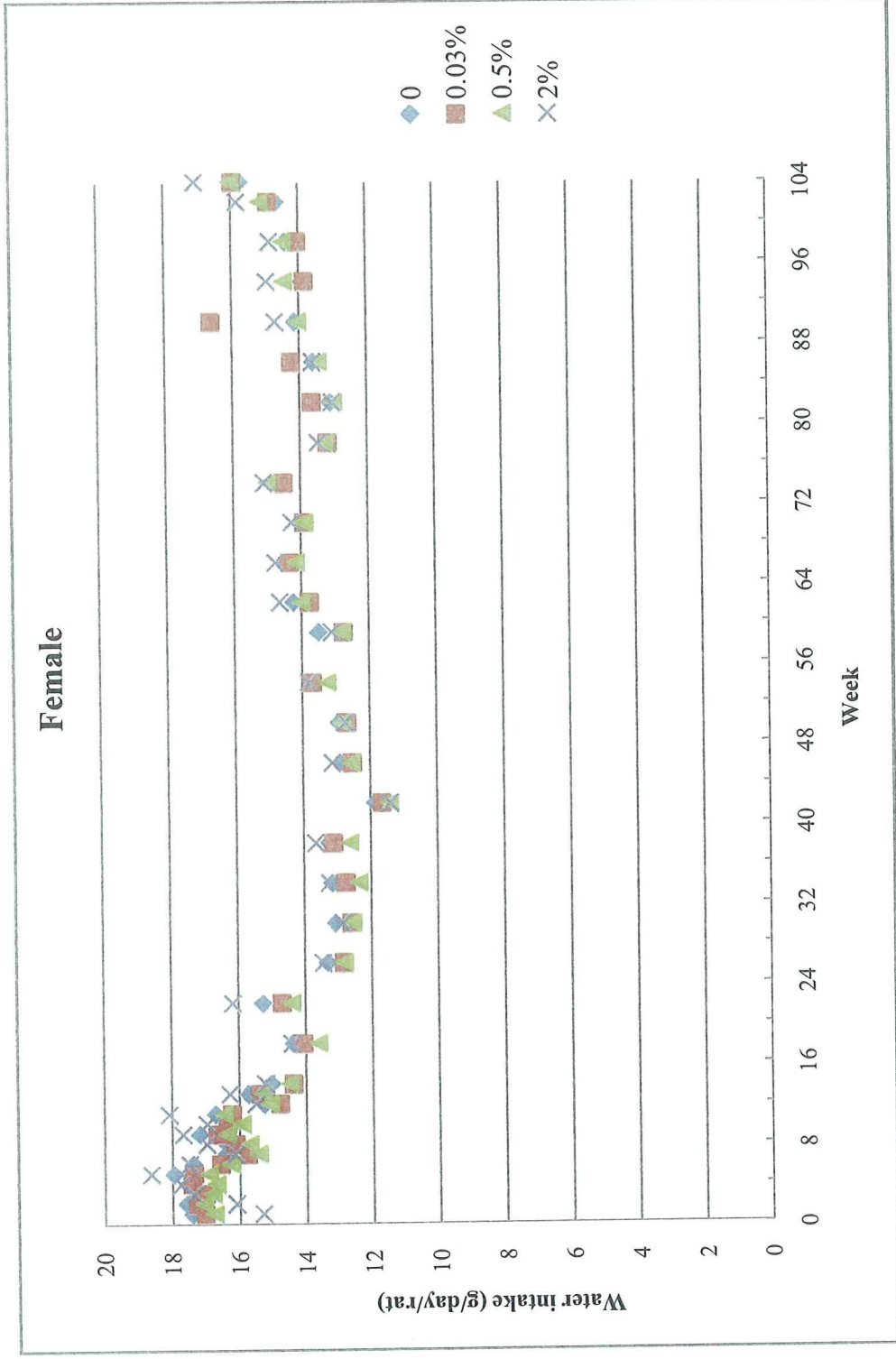


Figure 7A. Water intake in male F344 rats (2-year carcinogenicity study)

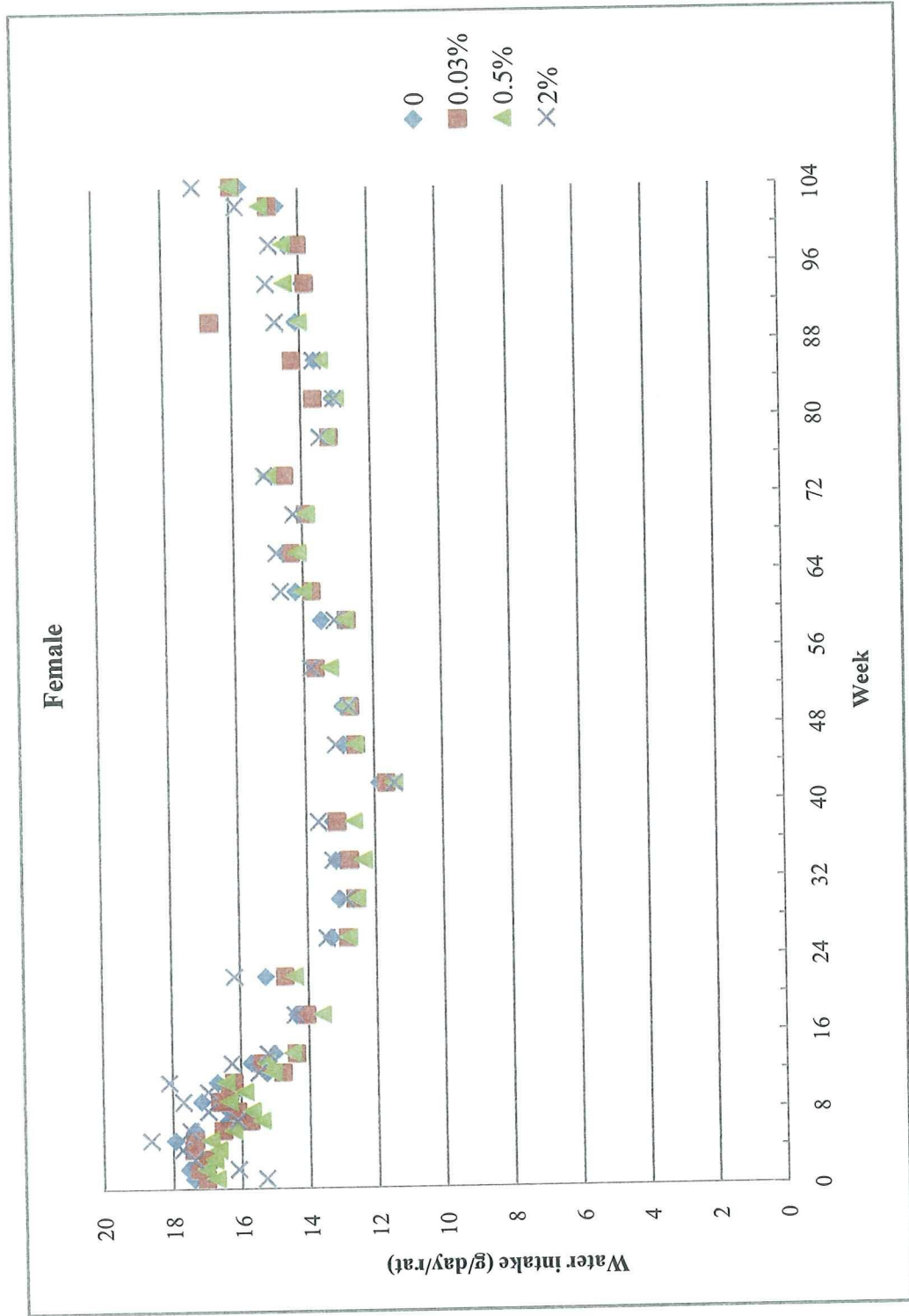


Figure 7B. Water intake in female F344 rats (2-year carcinogenicity study)

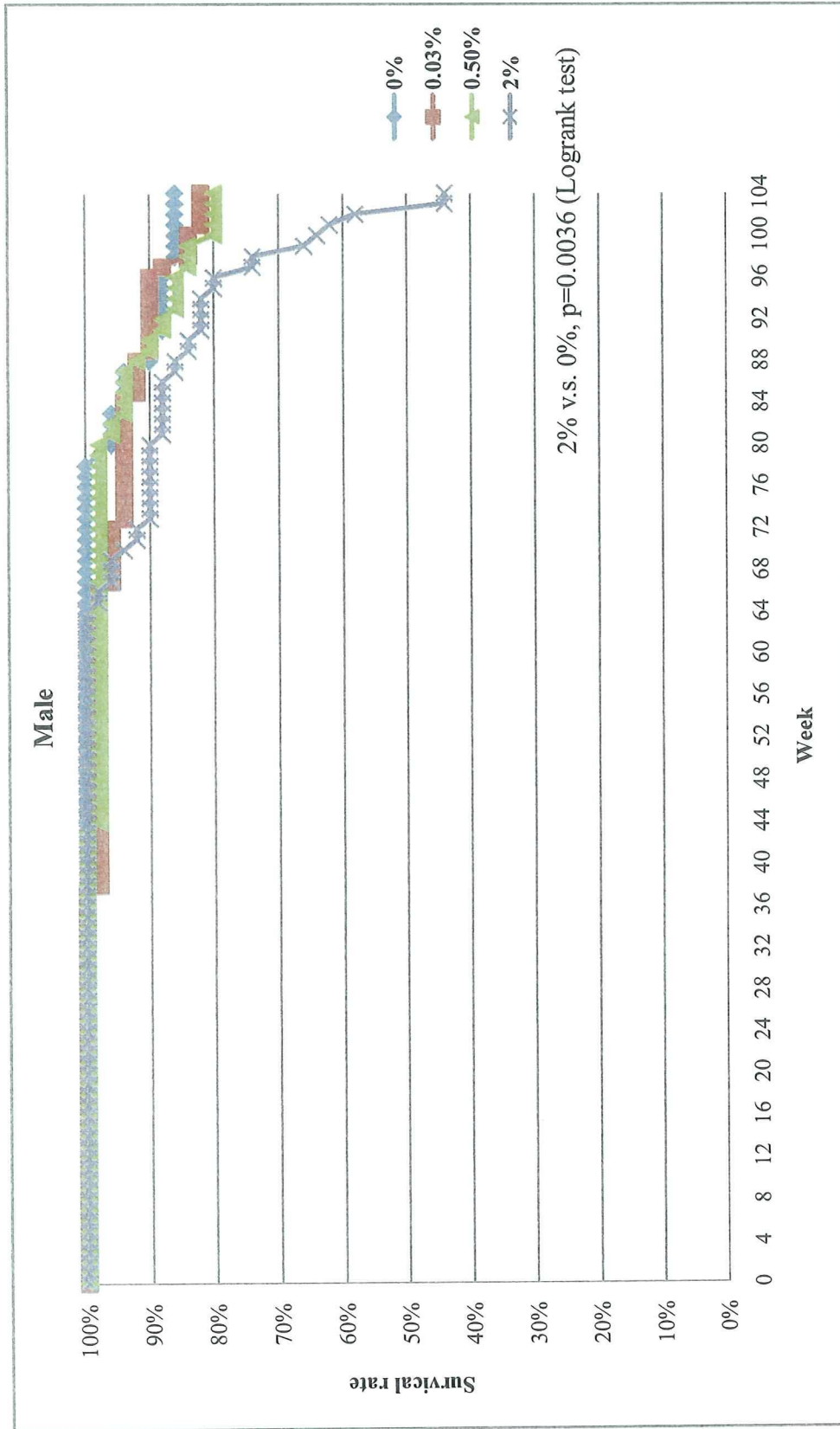


Figure 8A. Survival curves in male F344 rats (2-year carcinogenicity study)

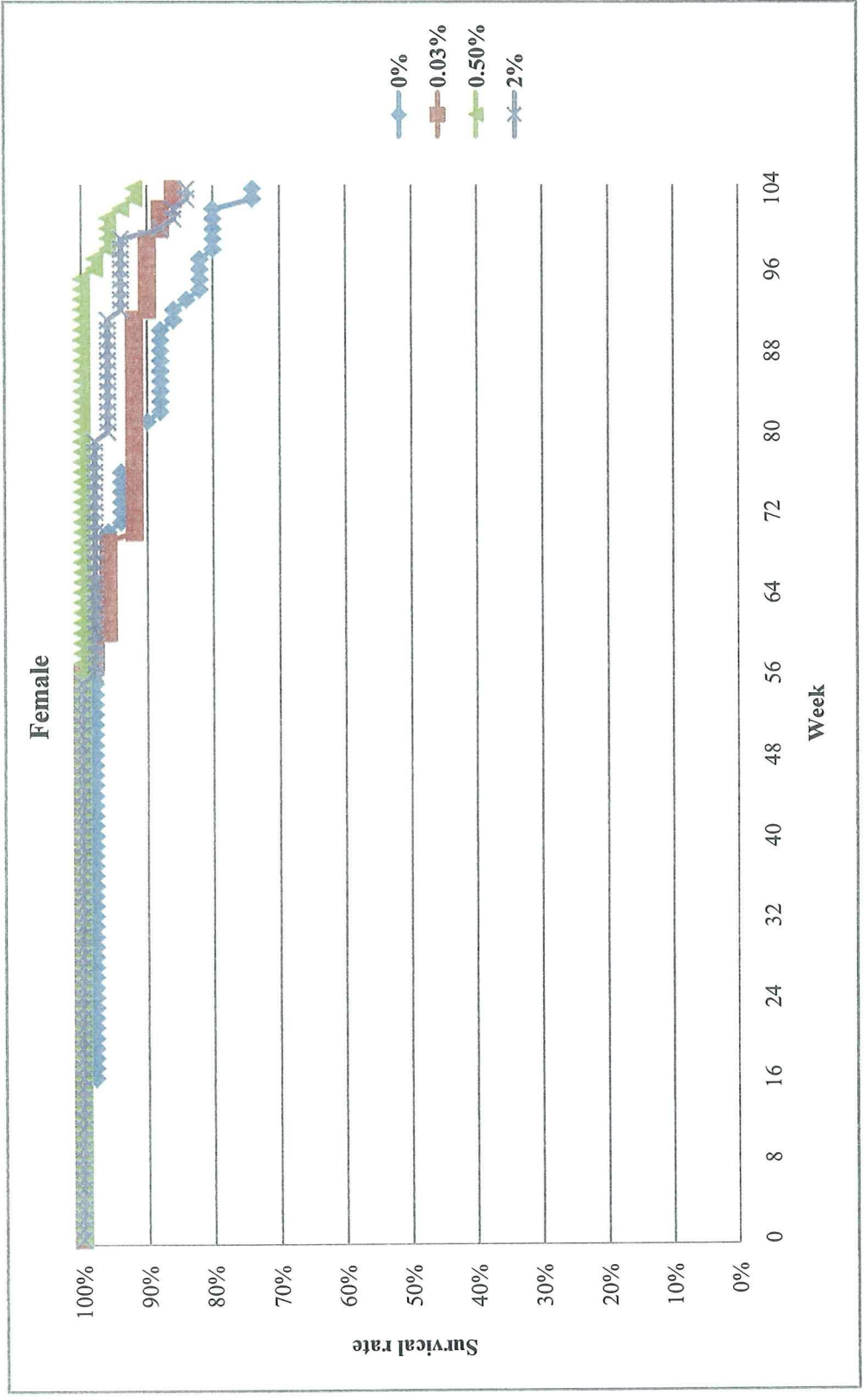


Figure 8B. Survival curves in female F344 rats (2-year carcinogenicity study)

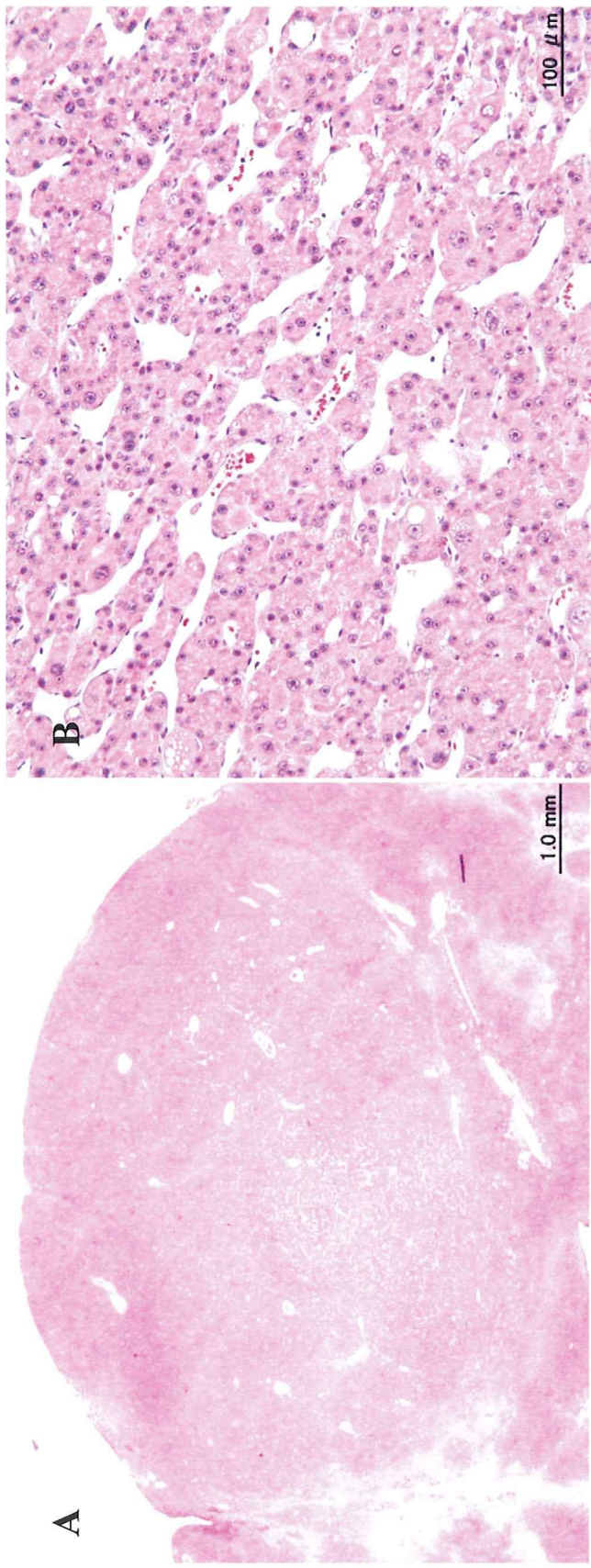


Figure 9. Hepatocellular carcinoma in 2% male group (2-year carcinogenicity study).
A, low magnification; B, high magnification of A.

Table 1

Body weight (g) in 1-year toxicity study

Treatment	No. of animals	Week											
		0	1	2	3	4	5	6	7	8	9	10	11
Male													
Control	10	115.1	163.4	195.3	222.1	237.9	261.4	278.7	290.3	300.8	309.9	318.6	327.0
0.03%	10	115.1	165.5	199.4	227.3	245.2	270.0	287.1	301.2	314.6	326.6*	336.4*	346.0*
0.125%	10	115.6	165.1	198.5	226.9	244.4	269.3	284.9	299.4	310.8	320.7	329.6	338.2
0.5%	10	114.9	162.6	196.4	223.2	240.8	264.6	281.1	294.4	305.0	315.5	325.3	333.1
2%	10	115.9	156.6	184.5*	209.8*	224.5*	247.1*	260.0*	271.0*	280.3*	287.4*	295.1*	302.3*
Female													
Control	10	92.4	117.1	130.0	140.9	146.2	158.3	164.4	168.7	172.1	174.4	179.3	182.2
0.03%	10	93.2	118.0	133.2	142.2	149.2	159.1	167.2	171.1	175.2	179.9*	182.5	185.9
0.125%	10	92.8	116.8	131.4	141.0	148.8	160.8	167.3	171.9	176.5	180.0	183.6	185.9
0.5%	10	92.1	116.4	130.2	141.0	145.9	156.9	164.3	167.8	173.6	176.8	179.4	182.6
2%	10	92.1	112.2	127.7	137.0	141.4	150.4	155.4	159.0*	162.9	166.1*	168.6*	172.8

* Significantly different from control group.

Table 1 (continued)
Body weight (g) in 1-year toxicity study

Treatment	Week												
	12	13	17	21	25	29	33	37	41	45	49	51	52
Male													
Dammar resin													
Control	334.8	338.4	360.0	378.0	394.7	405.4	415.1	425.1	434.3	441.9	449.9	448.4	449.0
0.03%	354.7*	359.4*	384.6*	404.8*	420.4*	434.2*	443.8*	455.3*	463.0*	471.6*	479.7*	477.1*	477.4*
0.125%	346.2	349.2	374.1	392.3	408.4	419.0	426.9	436.4	445.7	454.3	462.6	460.5	460.5
0.5%	340.5	345.9	370.0	386.0	400.6	413.7	424.1	435.3	445.4	454.5	463.2	462.2	460.6
2%	307.9*	311.3*	332.3*	346.3*	361.4*	368.0*	377.1*	385.3*	392.5*	394.8*	404.1*	404.2*	401.7*
Female													
Control	184.9	184.7	190.2	193.9	199.2	201.6	203.9	208.0	212.8	217.3	222.1	223.0	224.0
0.03%	188.7	188.6	197.2	202.7	208.4	210.6*	215.3	219.0*	227.3*	231.9	236.5*	238.4*	240.0*
0.125%	188.1	190.4	197.9	201.5	209.5	212.7*	217.2	223.8	226.2	232.7	237.8	237.9*	240.0*
0.5%	185.1	186.5	192.0	195.7	203.2	208.0	212.5	218.4	220.9	224.6	228.4	232.2	232.8
2%	175.9*	175.3*	181.7*	185.3*	191.7	192.9*	194.7	197.1	202.2	203.5	206.4*	205.5*	207.5*

* Significantly different from control group.

Table 2

Food intake (g/day/rat) in 1-year toxicity study

Treatment	No. of animals	Week											
		1	2	3	4	5	6	7	8	9	10	11	12
Male													
Control	10	12.9	14.0	15.0	15.1	15.2	15.3	13.9	13.9	13.7	13.1	13.5	12.9
0.03%	10	13.4	14.7	15.7	15.1	15.9	14.5	15.1	14.6	14.7	14.0*	14.5*	13.9*
0.125%	10	13.7	14.8	15.5	15.4	15.9	14.8	15.3	14.8	14.0	13.5	14.1	13.2
0.5%	10	13.8	14.5	15.4	15.6	15.9	14.3	15.1*	14.5	14.6	13.5	14.0	13.5
2%	10	13.1	14.5	14.7	15.4	15.0	13.3	14.0	13.7	12.7	12.0*	13.1	12.1
Female													
Control	10	9.8	9.8	10.6	9.3	10.5	9.6	9.5	9.2	9.0	10.2	9.1	8.8
0.03%	10	10.3	10.5	10.8	10.4	10.3	10.3	9.7	9.9	9.4	9.2	9.0	8.8
0.125%	10	9.9	10.2	10.8	10.0	10.8	10.7	10.1	10.6	9.3	9.0	9.0	9.3
0.5%	10	10.7*	10.2	10.9	10.5	10.5	8.6	9.7	9.6	9.6	9.3	9.5	8.9
2%	10	10.0	10.0	10.4	10.5	10.3	9.1	9.2	8.9	8.8	8.9	8.9	8.7

* Significantly different from control group.

Table 2 (continued)

Food intake (g/day/rat) in 1-year toxicity study

Treatment	Week											
	13	14	18	22	26	30	34	38	42	46	50	52
Dammar resin	13.1	12.6	13.5	12.9	13.4	13.2	13.4	13.0	13.2	13.1	13.5	12.5
Control	13.1	12.6	13.5	12.9	13.4	13.2	13.4	13.0	13.2	13.1	13.5	12.5
0.03%	14.3	13.9*	14.4	14.0*	14.4	14.4*	14.3	14.4*	14.2	14.3*	14.7*	13.4
0.125%	13.6	13.1	14.0	13.5	14.0	13.6	13.7	13.9*	14.2	14.0	14.1	12.8
0.5%	12.9	12.5	14.0	13.3	13.8	13.6	13.8	14.1*	14.4*	14.3*	14.6*	13.0
2%	13.2	12.0	13.9	13.2	14.2	13.5	13.9	13.7	13.5	13.8	13.5	12.9
Female												
Control	8.7	8.0	8.5	8.5	8.3	7.9	8.2	8.4	8.6	8.8	9.1	8.5
0.03%	9.4	8.1	9.1	8.6	9.1	8.6	8.3	8.9	9.2	9.2	9.8	8.9
0.125%	9.7	9.2	9.6	8.6	9.1	8.6	8.8	8.5	9.1	8.8	9.3	8.2
0.5%	10.0	8.3	9.1	8.7	9.1	9.3*	8.8	9.0	9.2	8.8	9.7	8.5
2%	9.0	8.3	9.2	8.6	9.0	8.5	8.1	9.0	8.6	8.5	9.0	8.5

* Significantly different from control group.

Table 3

Intake of dammar resin of F344 rats in 1-year toxicity study

Sex	Treatment		No. of animals	Total intake of dammar resin (mg/kg b.w.)	Average intake of dammar resin (mg/kg b.w./day)
	Dammar resin				
Male					
	Control		10	0	0
	0.03%		10	4320.75	11.87
	0.125%		10	18050.48	49.59
	0.5%		10	72960.79	200.44
	2%		10	311849.79	856.73
Female					
	Control		10	0	0
	0.03%		10	5192.11	14.26
	0.125%		10	21558.39	59.23
	0.5%		10	88063.29	241.93
	2%		10	363244.98	997.93

Table 4

Hematology data (1-year toxicity study)

Sex	Treatment	No. of animal	WBC (/□l)	RBC (x10 ⁴ /l)	Hb (g/dl)	Platelet (x10 ⁴ /□l)	Ht (%)
Male	Control	10	3190 ± 606	902 ± 14	15.0 ± 0.4	60.3 ± 3.8	45.3 ± 0.6
	0.03%	10	2790 ± 559	921 ± 15*	14.9 ± 0.2	63.1 ± 2.6	45.8 ± 1.2
	0.125%	10	2610 ± 415*	912 ± 12	14.8 ± 0.2	59.9 ± 3.0	45.6 ± 0.6
	0.5%	10	2250 ± 350*	888 ± 15	14.5 ± 0.4*	67.9 ± 3.2*	44.8 ± 0.9
	2%	10	2630 ± 432*	869 ± 24*	14.1 ± 0.5*	71.6 ± 3.5*	44.7 ± 1.4
	Female	Control	10	2360 ± 832	867 ± 39	15.7 ± 0.7	48.0 ± 8.4
0.03%		10	2150 ± 327	863 ± 40	15.6 ± 0.8	51.1 ± 3.0	48.9 ± 2.7
0.125%		10	1930 ± 386	856 ± 16	15.3 ± 0.4	52.1 ± 3.5	48.7 ± 1.5
0.5%		10	2400 ± 476	865 ± 45	15.3 ± 1.3*	58.6 ± 5.3*	49.6 ± 2.6
2%		10	2470 ± 371	833 ± 43	14.3 ± 0.8*	69.7 ± 17.7*	49.0 ± 2.5

* Significantly different from control group.