

Appendix C *gpt* Mutant frequencies in the lung of *gpt* delta rats treated with Ni<sub>3</sub>S<sub>2</sub> by intratracheal administration and liver treated with ENU (positive control)..

Lab. C

Treatment	Smplng time <sup>1)</sup>	Animal No.	Organ	Number of packagings	Total Population	Number of mutants	Mutant frequency (x 10 <sup>-6</sup> )	
								Mean ± SD
0 mg/animal x 4	28 days	1001	lung	3	420,000	1	2.38	
		1002	lung	3	342,000	1	2.92	
		1003	lung	3	402,000	0	0.00	
		1004	lung	3	576,000	1	1.74	
		1005	lung	3	429,000	1	2.33	1.87 ± 1.13
0.5 mg/animal x 4	28 days	1101	lung	3	339,000	2	5.90	
		1102	lung	3	471,000	1	2.12	
		1103	lung	3	441,000	0	0.00	
		1104	lung	3	498,000	1	2.01	
		1105	lung	3	540,000	1	1.85	2.38 ± 2.15
1 mg/animal x 4	28 days	1201	lung	3	435,000	1	2.30	
		1202	lung	3	456,000	0	0.00	
		1203	lung	3	456,000	0	0.00	
		1204	lung	3	1,122,000	2	1.78	
		1205	lung	3	1,608,000	4	2.49	1.31 ± 1.23
0 mg/animal x 4	90 days	1011	lung	3	837,000	1	1.19	
		1012	lung	3	882,000	2	2.27	
		1013	lung	3	1,191,000	3	2.52	
		1014	lung	3	813,000	1	1.23	
		1015	lung	3	537,000	0	0.00	1.44 ± 1.00
0.5 mg/animal x 4	90 days	1111	lung	3	573,000	1	1.75	
		1112	lung	3	738,000	1	1.36	
		1113	lung	3	519,000	1	1.93	
		1114	lung	3	990,000	2	2.02	
		1115	lung	3	1,035,000	1	0.97	1.60 ± 0.44
1 mg/animal x 4	90 days	1211	lung	3	930,000	3	3.23	
		1212	lung	3	828,000	2	2.42	
		1213	lung	3	633,000	1	1.58	
		1214	lung	3	1,062,000	2	1.88	
		1215	lung	3	1,062,000	3	2.82	2.39 ± 0.67
ENU 50 mg/kg x 5	31 days	51	liver	2	465,000	33	70.97	
		52	liver	2	432,000	19	43.98	
		53	liver	2	636,000	38	59.75	
		54	liver	2	600,000	36	60.00	
		55	liver	2	543,000	39	71.82	61.30 ± 11.27