1020_L_MWNT Tissue Burden Analysis in Male B6C3F1 Mice at 0 days

Parmeter[a]	0 mg/m3	0.1 mg/m3	0.3 mg/m3	1.0 mg/m3	3.0 mg/m3	10.0 mg/m3	Trend[b]
Sample Weight (g)[b]	0.153±0.003 [10]	0.155 ± 0.004 [10]	0.149 ± 0.002 [10]	0.160±0.003 [10]	0.181±0.004 [10]**	0.224±0.003 [10]**	<.001
Sample Conc (ug Ni/g)[c]	0.016±0.008 [10]	0.053±0.003 [10]**	0.180±0.036 [10]**	0.546±0.014 [10]**	1.324±0.033 [10]**	2.582±0.075 [10]**	<.001
Total Lung Burden (ug NI/lung)[c]	0.002±0.001 [10]	0.008±0.000 [10]**	0.027±0.005 [10]**	0.087±0.002 [10]**	0.239±0.005 [10]**	0.578±0.017 [10]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.46 ± 0.23 [10]	1.57 ± 0.08 [10]**	5.11 ± 0.96 [10]**	16.81 ± 0.42 [10]**	45.97 ± 0.92 [10]**	111.09±3.18 [10]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		15.73 ± 0.83 [10]	17.03 ± 3.21 [10]	16.81 ± 0.42 [10]	15.32 ± 0.31 [10]	11.11 ± 0.32 [10]	

a: All values shown as mean ± standard error [number]

b: For sample weight, each dose was compared to the control with Williams' test when a trend was present (P <0.01 from Jonckheere's trend test). Otherwise, Dunnett's test was applied. [* = P<0.05, ** = P<0.01]

c: For endpoints other than sample weight, each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from Jonckheere's trend test). Otherwise, Dunn's test was applied. [* = P<0.05, ** = P<0.01]

1020_L_MWNT Tissue Burden Analysis in Male B6C3F1 Mice at 14 days

Parmeter[a]	0 mg/m3	0.1 mg/m3	0.3 mg/m3	1.0 mg/m3	3.0 mg/m3	10.0 mg/m3	Trend[b]
Sample Weight (g)[b]	0.164±0.006 [5]	0.160 ± 0.005 [5]	0.165 ± 0.008 [5]	0.170±0.001 [5]	0.190±0.003 [5]*	0.274±0.012 [5]**	<.001
Sample Conc (ug Ni/g)[c]	0.065±0.054 [5]	0.035±0.006 [5]	0.092±0.010 [5]*	0.403±0.025 [5]**	1.115±0.042 [5]**	2.045±0.199 [5]**	<.001
Total Lung Burden (ug NI/lung)[c]	0.011±0.009 [5]	0.006±0.001 [5]	0.015±0.001 [5]*	0.069±0.004 [5]**	0.212±0.008 [5]**	0.551±0.034 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	2.11 ± 1.76 [5]	1.11 ± 0.21 [5]	2.88± 0.26 [5]*	13.20 ± 0.84 [5]**	40.78 ± 1.51 [5]**	105.93±6.53 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		11.07 ± 2.15 [5]	9.61 ± 0.88 [5]	13.20 ± 0.84 [5]	13.59 ± 0.50 [5]	10.59 ± 0.65 [5]	

a: All values shown as mean ± standard error [number]

b: For sample weight, each dose was compared to the control with Williams' test when a trend was present (P <0.01 from Jonckheere's trend test).
   Otherwise, Dunnett's test was applied. [* = P<0.05, ** = P<0.01]

c: For endpoints other than sample weight, each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from
   Jonckheere's trend test).   Otherwise, Dunn's test was applied. [* = P<0.05, ** = P<0.01]

1020_L_MWNT Tissue Burden Analysis in Male B6C3F1 Mice at 42 days

Parmeter[a]	0 mg/m3	0.1 mg/m3	0.3 mg/m3	1.0 mg/m3	3.0 mg/m3	10.0 mg/m3	Trend[b]
Sample Weight (g)[b]	0.149±0.002 [5]	0.143 ± 0.002 [5]	0.150 ± 0.004 [5]	0.155±0.003 [5]	0.182±0.004 [5]**	0.237±0.007 [5]**	<.001
Sample Conc (ug Ni/g)[c]	0.028±0.009 [5]	0.053±0.013 [5]	0.066±0.007 [5]*	0.267±0.025 [5]**	1.001±0.046 [5]**	2.356±0.082 [5]**	<.001
Total Lung Burden (ug NI/lung)[c]	0.004±0.001 [5]	0.008±0.002 [5]	0.010±0.001 [5]*	0.042±0.004 [5]**	0.183±0.010 [5]**	0.557±0.015 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.79 ± 0.25 [5]	1.45 ± 0.33 [5]	1.89 ± 0.17 [5]*	7.98 ± 0.84 [5]**	35.15 ± 1.87 [5]**	107.15±2.85 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		14.46 ± 3.34 [5]	6.29 ± 0.56 [5]	7.98 ± 0.84 [5]	11.72 ± 0.62 [5]	10.72 ± 0.28 [5]	

a: All values shown as mean ± standard error [number]

b: For sample weight, each dose was compared to the control with Williams' test when a trend was present (P <0.01 from Jonckheere's trend test). Otherwise, Dunnett's test was applied. [* = P<0.05, ** = P<0.01]

c: For endpoints other than sample weight, each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from Jonckheere's trend test).   Otherwise, Dunn's test was applied. [* = P<0.05, ** = P<0.01]

1020_L_MWNT Tissue Burden Analysis in Male B6C3F1 Mice at 126 days

Parmeter[a]	0 mg/m3	0.1 mg/m3	0.3 mg/m3	1.0 mg/m3	3.0 mg/m3	10.0 mg/m3	Trend[b]
Sample Weight (g)[b]	0.175±0.006 [5]	0.166 ± 0.008 [5]	0.175 ± 0.004 [5]	0.172±0.004 [5]	0.197±0.002 [5]**	0.231±0.003 [5]**	<.001
Sample Conc (ug Ni/g)[c]	0.008±0.000 [5]	0.008±0.000 [5]	0.021±0.008 [5]*	0.220±0.017 [5]**	0.907±0.034 [5]**	1.900±0.043 [5]**	<.001
Total Lung Burden (ug NI/lung)[c]	0.001±0.000 [5]	0.001±0.000 [5]	0.004±0.001 [5]	0.038±0.003 [5]**	0.179±0.008 [5]**	0.438±0.014 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.27 ± 0.01 [5]	0.26 ± 0.01 [5]	0.72 ± 0.27 [5]	7.29 ± 0.62 [5]**	34.45±1.63 [5]**	84.31±2.61 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		2.56 ± 0.13 [5]	2.39 ± 0.88 [5]	7.29 ± 0.62 [5]	11.48 ± 0.54 [5]	8.43 ± 0.26 [5]	

a: All values shown as mean ± standard error [number]

b: For sample weight, each dose was compared to the control with Williams' test when a trend was present (P <0.01 from Jonckheere's trend test). Otherwise, Dunnett's test was applied. [* = P<0.05, ** = P<0.01]

c: For endpoints other than sample weight, each dose was compared to the control with Shirley's test when a trend was present (P <0.01 from Jonckheere's trend test). Otherwise, Dunn's test was applied. [* = P<0.05, ** = P<0.01]