1020_L_MWNT Tissue Burden Analysis in Male HD Rats at 0 days

Parameter[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]	1.426 ± 0.047 [10]	1.511 ± 0.064 [10]	1.595 ± 0.105 [10]	1.599 ± 0.112 [10]	1.770 ± 0.054 [10]**	1.782 ± 0.037 [10]**	<.001
Sample Conc (ug Ni/g)[c]	0.001 ± 0.000 [10]	0.028 ± 0.001 [10]**	0.095 ± 0.015 [10]**	0.327 ± 0.019 [10]**	0.818 ± 0.030 [10]**	2.060 ± 0.102 [10]**	<.001
Total Lung Burden (ug Ni/lung)[c]	0.001 ± 0.000 [10]	0.042 ± 0.002 [10]**	0.141 ± 0.015 [10]**	0.505 ± 0.018 [10]**	1.439 ± 0.046 [10]**	3.658 ± 0.163 [10]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.192 ± 0.006 [10]	8.052 ± 0.405 [10]**	27.10 ± 2.802 [10]**	97.19 ± 3.421 [10]**	276.8 ± 8.902 [10]**	703.5 ± 31.28 [10]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		80.52 ± 4.05 [10]	90.33 ± 9.34 [10]	97.19 ± 3.42 [10]	92.27 ± 2.97 [10]	70.35 ± 3.13 [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 HD Rats at 14 days

Parameter[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]	1.675 ± 0.214 [5]	1.807 ± 0.158 [5]	1.825 ± 0.036 [5]	1.752 ± 0.078 [5]	2.106 ± 0.075 [5]*	2.286 ± 0.139 [5]**	<.001
Sample Conc (ug Ni/g)	0.001 ± 0.000 [5]	0.017 ± 0.001 [5]**	0.052 ± 0.003 [5]**	0.313 ± 0.019 [5]**	0.721 ± 0.047 [5]**	1.803 ± 0.082 [4]**	<.001
Total Lung Burden (ug Ni/lung)	0.002 ± 0.000 [5]	0.030 ± 0.003 [5]**	0.095 ± 0.005 [5]**	0.543 ± 0.018 [5]**	1.523 ± 0.129 [5]**	3.868 ± 0.115 [4]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)	0.323 ± 0.096 [5]	5.832 ± 0.641 [5]**	18.24 ± 1.036 [5]**	104.3 ± 3.377 [5]**	292.9 ± 24.80 [5]**	743.9 ± 22.07 [4]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)		58.32 ± 6.41 [5]	60.80 ± 3.45 [5]	104.35 ± 3.38 [5]	97.62 ± 8.27 [5]	74.39 ± 2.21 [4]	

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 HD Rats at 42 days

Parameter[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]	2.029 ± 0.180 [5]	1.772 ± 0.101 [5]	1.749 ± 0.076 [5]	2.123 ± 0.135 [5]	2.135 ± 0.147 [5]	1.973 ± 0.112 [5]	0.337
Sample Conc (ug Ni/g)[c]	0.001 ± 0.000 [5]	0.012 ± 0.002 [5]**	0.041 ± 0.004 [5]**	0.204 ± 0.020 [5]**	0.576 ± 0.060 [5]**	1.657 ± 0.057 [5]**	<.001
Total Lung Burden (ug Ni/lung)[c]	0.002 ± 0.001 [5]	0.020 ± 0.002 [5]**	0.071 ± 0.006 [5]**	0.430 ± 0.042 [5]**	1.203 ± 0.092 [5]**	3.258 ± 0.168 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.444 ± 0.180 [5]	3.858 ± 0.410 [5]**	13.72 ± 1.248 [5]**	82.64 ± 8.158 [5]**	231.4 ± 17.66 [5]**	626.5 ± 32.40 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		38.58 ± 4.10 [5]	45.73 ± 4.16 [5]	82.64 ± 8.16 [5]	77.13 ± 5.89 [5]	62.65 ± 3.24 [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 HD Rats at 126 days

Parameter[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]	1.996 ± 0.178 [5]	1.885 ± 0.056 [5]	2.009 ± 0.199 [5]	2.153 ± 0.208 [5]	2.191 ± 0.258 [5]	2.175 ± 0.068 [5]	0.163
Sample Conc (ug Ni/g)[c]	0.001 ± 0.000 [5]	0.005 ± 0.001 [5]**	0.020 ± 0.005 [5]**	0.097 ± 0.016 [5]**	0.428 ± 0.062 [5]**	1.426 ± 0.084 [5]**	<.001
Total Lung Burden (ug Ni/lung)[c]	0.001 ± 0.000 [5]	0.010 ± 0.002 [5]**	0.038 ± 0.006 [5]**	0.201 ± 0.027 [5]**	0.891 ± 0.091 [5]**	3.095 ± 0.179 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung)[c]	0.269 ± 0.024 [5]	1.907 ± 0.331 [5]**	7.262 ± 1.074 [5]**	38.74 ± 5.273 [5]**	171.3 ± 17.49 [5]**	595.3 ± 34.34 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3)[c]		19.07 ± 3.31 [5]	24.21 ± 3.58 [5]	38.74 ± 5.27 [5]	57.09 ± 5.83 [5]	59.53 ± 3.43 [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]