

1020_L_MWNT Tissue Burden Analysis in Female B6C3F1 Mice 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	0.148±0.002 [10]	0.154 ± 0.002 [10]	0.156 ± 0.003 [10]	0.161±0.002 [10]**	0.181±0.003 [10]**	0.215±0.003 [10]**	<.001
Sample Conc (ug Ni/g) ^c	0.008±0.000 [10]	0.056±0.005 [10]**	0.121±0.004 [10]**	0.494±0.016 [10]**	1.168±0.030 [10]**	2.609±0.056 [10]**	<.001
Total Lung Burden (ug Ni/lung) ^c	0.001±0.000 [10]	0.009±0.001 [10]**	0.019±0.000 [10]**	0.079±0.002 [10]**	0.212±0.007 [10]**	0.561±0.013 [10]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung) ^c	0.23 ± 0.00 [10]	1.67 ± 0.15 [10]**	3.61 ± 0.07 [10]**	15.25 ± 0.37 [10]**	40.80 ± 1.32 [10]**	107.88±2.53 [10]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3) ^c		16.69 ± 1.48 [10]**	12.05 ± 0.24 [10]**	15.25 ± 0.37 [10]	13.60 ± 0.44 [10]	10.79 ± 0.25 [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 Female B6C3F1 Mice 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	0.159±0.004 [5]	0.154 ± 0.003 [5]	0.158 ± 0.004 [5]	0.165±0.002 [5]	0.185±0.006 [5]**	0.252±0.008 [5]**	<.001
Sample Conc (ug Ni/g) ^c	0.013±0.005 [5]	0.065±0.029 [5]*	0.085±0.011 [5]**	0.443±0.039 [5]**	1.109±0.040 [5]**	2.275±0.059 [5]**	<.001
Total Lung Burden (ug NI/lung) ^c	0.002±0.001 [5]	0.010±0.005 [5]*	0.013±0.002 [5]**	0.073±0.007 [5]**	0.204±0.007 [5]**	0.573±0.013 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung) ^c	0.40 ± 0.15 [5]	1.92 ± 0.87 [5]*	2.59± 0.30 [5]**	14.10 ± 1.31 [5]**	39.31 ± 1.39 [5]**	110.13±2.59 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3) ^c		19.18 ± 8.70 [5]	8.63 ± 1.01 [5]	14.10 ± 1.31 [5]	13.10 ± 0.46 [5]	11.01 ± 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]

1020_L_MWNT Tissue Burden Analysis in Female B6C3F1 Mice 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	0.163±0.003 [5]	0.162 ± 0.005 [5]	0.168 ± 0.004 [5]	0.167±0.003 [5]	0.194±0.004 [5]**	0.232±0.006 [5]**	<.001
Sample Conc (ug Ni/g) ^c	0.013±0.005 [5]	0.037±0.018 [5]	0.062±0.006 [5]**	0.302±0.013 [5]**	1.034±0.017 [5]**	2.448±0.039 [5]**	<.001
Total Lung Burden (ug Ni/lung) ^c	0.002±0.001 [5]	0.006±0.003 [5]	0.010±0.001 [5]**	0.050±0.002 [5]**	0.201±0.006 [5]**	0.568±0.014 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung) ^c	0.41 ± 0.16 [5]	1.14 ± 0.56 [5]	2.00 ± 0.16 [5]**	9.66 ± 0.46 [5]**	38.58 ± 1.07 [5]**	109.27±2.74 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3) ^c		11.36 ± 5.62 [5]	6.68 ± 0.54 [5]	9.66 ± 0.46 [5]	12.86 ± 0.36 [5]	10.93 ± 0.27 [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 Female B6C3F1 Mice 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 g/m3	Trend ^b
Sample Weight (g) ^b	0.174±0.003 [5]	0.166 ± 0.002 [5]	0.164 ± 0.003 [5]	0.167±0.003 [5]	0.191±0.006 [5]**	0.239±0.004 [5]**	<.001
Sample Conc (ug Ni/g) ^c	0.008±0.000 [5]	0.016±0.008 [5]	0.021±0.004 [5]*	0.092±0.007 [5]**	0.907±0.036 [5]**	2.060±0.069 [5]**	<.001
Total Lung Burden (ug NI/lung) ^c	0.001±0.000 [5]	0.003±0.002 [5]	0.003±0.001 [5]	0.015±0.001 [5]**	0.173±0.007 [5]**	0.491±0.011 [5]**	<.001
Total Lung Burden (ug L-MWNT-1020/lung) ^c	0.27 ± 0.00 [5]	0.54 ± 0.29 [5]	0.67 ± 0.14 [5]	2.95 ± 0.24 [5]**	33.33 ± 1.34 [5]**	94.39±2.14 [5]**	<.001
Norm. Lung Burden (ug LMWNT/lung per mg/m3) ^c		5.41 ± 2.92 [5]	2.23 ± 0.47 [5]	2.95 ± 0.24 [5]	11.11 ± 0.45 [5]	9.44 ± 0.21 [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]