

Experiment Number: C07062-02

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

C Number:

Cage Range:

Date Range:

Reasons For Removal:

Removal Date Range:

Treatment Groups:

Study Gender:

PA06: Organ Weights Summary

Test Compound: 1020 Long Multiwalled Carbon Nanotube

CAS Number: L-MWNT-1020

C07062-02

All

All

All

All

All

Both

Date Report Requested: 04/10/2017

Time Report Requested: 12:45:04

Lab: NTP

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Males: Male Organ Weight

	Treatment Groups (mg/m ³)					
	0	0.1	0.3	1	3	10
Terminal Body Wt.	27.9 ± 0.4 (10)	27.6 ± 0.3 (10)	27.3 ± 0.5 (10)	27.2 ± 0.3 (10)	27.5 ± 0.5 (10)	27.8 ± 0.5 (10)
Heart						
Absolute (g)	0.13 ± 0.00 (10)	0.13 ± 0.00 (10)	0.13 ± 0.00 (10)	0.13 ± 0.00 (10)	0.13 ± 0.00 (10)	0.14 ± 0.00 (10)
Relative (mg/g)	4.67 ± 0.08 (10)	4.71 ± 0.07 (10)	4.76 ± 0.07 (10)	4.65 ± 0.08 (10)	4.73 ± 0.11 (10)	4.85 ± 0.07 (10)
R. Kidney						
Absolute (g)	0.24 ± 0.01 (10)	0.26 ± 0.01 (10)	0.25 ± 0.01 (10)	0.24 ± 0.00 (10)	0.25 ± 0.01 (10)	0.25 ± 0.01 (10)
Relative (mg/g)	8.73 ± 0.18 (10)	9.31 ± 0.18 (10)	9.05 ± 0.19 (10)	9.00 ± 0.18 (10)	9.21 ± 0.12 (10)	9.12 ± 0.16 (10)
Liver						
Absolute (g)	1.29 ± 0.05 (10)	1.31 ± 0.04 (10)	1.31 ± 0.03 (10)	1.30 ± 0.02 (10)	1.35 ± 0.04 (10)	1.29 ± 0.04 (10)
Relative (mg/g)	46.32 ± 1.33 (10)	47.41 ± 1.00 (10)	47.97 ± 0.95 (10)	47.73 ± 0.78 (10)	49.05 ± 0.92 (10)	46.31 ± 1.02 (10)
Lung						
Absolute (g)	0.18 ± 0.01 (10) **	0.19 ± 0.01 (10)	0.18 ± 0.00 (10)	0.19 ± 0.00 (10)	0.21 ± 0.00 (10) **	0.26 ± 0.00 (10) **
Relative (mg/g)	6.61 ± 0.21 (10) **	6.82 ± 0.19 (10)	6.73 ± 0.08 (10)	7.08 ± 0.16 (10)	7.67 ± 0.13 (10) **	9.29 ± 0.19 (10) **
R. Testis						
Absolute (g)	0.101 ± 0.003 (10)	0.104 ± 0.002 (10)	0.100 ± 0.003 (10)	0.102 ± 0.002 (10)	0.098 ± 0.003 (10)	0.099 ± 0.004 (10)
Relative (mg/g)	3.63 ± 0.08 (10)	3.79 ± 0.10 (10)	3.65 ± 0.09 (10)	3.75 ± 0.05 (10)	3.58 ± 0.10 (10)	3.55 ± 0.16 (10)
Thymus						
Absolute (g)	0.061 ± 0.003 (10)	0.061 ± 0.003 (10)	0.065 ± 0.002 (10)	0.065 ± 0.002 (10)	0.062 ± 0.003 (10)	0.066 ± 0.003 (10)
Relative (mg/g)	2.17 ± 0.10 (10)	2.22 ± 0.08 (10)	2.37 ± 0.10 (10)	2.41 ± 0.08 (10)	2.27 ± 0.09 (10)	2.36 ± 0.10 (10)

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Females: Female Organ Weight

	Treatment Groups (mg/m ³)					
	0	0.1	0.3	1	3	10
Terminal Body Wt.	24.4 ± 0.5 (10)	24.1 ± 0.3 (10)	24.5 ± 0.4 (10)	24.7 ± 0.3 (10)	23.8 ± 0.3 (10)	24.8 ± 0.3 (10)
Heart						
Absolute (g)	0.12 ± 0.00 (10)	0.12 ± 0.00 (10)	0.12 ± 0.00 (10)	0.12 ± 0.00 (10)	0.12 ± 0.00 (10)	0.12 ± 0.00 (10)
Relative (mg/g)	5.00 ± 0.12 (10)	4.91 ± 0.09 (10)	5.03 ± 0.08 (10)	4.98 ± 0.10 (10)	5.05 ± 0.10 (10)	4.93 ± 0.09 (10)
R. Kidney						
Absolute (g)	0.18 ± 0.01 (10)	0.18 ± 0.00 (10)	0.19 ± 0.00 (10)	0.19 ± 0.00 (10)	0.19 ± 0.00 (10)	0.19 ± 0.00 (10)
Relative (mg/g)	7.31 ± 0.17 (10) *	7.56 ± 0.09 (10)	7.56 ± 0.13 (10)	7.65 ± 0.13 (10)	7.77 ± 0.13 (10)	7.66 ± 0.13 (10)
Liver						
Absolute (g)	1.19 ± 0.03 (10)	1.16 ± 0.04 (10)	1.19 ± 0.04 (10)	1.19 ± 0.02 (10)	1.17 ± 0.02 (10)	1.19 ± 0.03 (10)
Relative (mg/g)	48.68 ± 0.96 (10)	48.22 ± 1.28 (10)	48.74 ± 1.02 (10)	48.20 ± 0.91 (10)	49.03 ± 0.87 (10)	47.87 ± 0.84 (10)
Lung						
Absolute (g)	0.18 ± 0.00 (10) **	0.18 ± 0.00 (10)	0.19 ± 0.01 (10)	0.19 ± 0.01 (10)	0.20 ± 0.00 (10) *	0.26 ± 0.00 (10) **
Relative (mg/g)	7.37 ± 0.12 (10) **	7.48 ± 0.12 (10)	7.68 ± 0.19 (10)	7.86 ± 0.30 (10)	8.36 ± 0.10 (10) **	10.29 ± 0.17 (10) **
Thymus						
Absolute (g)	0.074 ± 0.003 (10)	0.076 ± 0.002 (10)	0.075 ± 0.002 (10)	0.073 ± 0.002 (10)	0.071 ± 0.002 (10)	0.072 ± 0.002 (10)
Relative (mg/g)	3.01 ± 0.08 (10)	3.14 ± 0.07 (10)	3.06 ± 0.06 (10)	2.96 ± 0.09 (10)	2.98 ± 0.06 (10)	2.91 ± 0.09 (10)

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LEGEND

Data are displayed as mean \pm SEM (N)

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and William or Dunnett (pairwise) tests

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****