

Experiment Number: C07062-01

Test Type: TOX

Route: Whole Body Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: 1020 Long Multiwalled Carbon Nanotube

CAS Number: L-MWNT-1020

Date Report Requested: 04/10/2017

Time Report Requested: 12:35:53

Lab: NTP

C Number:

C07062-01

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

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Males: Male Organ Weight

	Treatment Groups (mg/m ³)					
	0	0.1	0.3	1	3	10
Terminal Body Wt.	288.4 ± 6.1 (10)	291.3 ± 3.9 (10)	280.4 ± 5.0 (10)	281.8 ± 7.2 (10)	291.0 ± 3.8 (10)	289.0 ± 7.1 (10)
Heart						
Absolute (g)	1.11 ± 0.04 (10)	1.12 ± 0.02 (10)	1.05 ± 0.02 (10)	1.09 ± 0.03 (10)	1.12 ± 0.02 (10)	1.10 ± 0.04 (10)
Relative (mg/g)	3.83 ± 0.08 (10)	3.85 ± 0.05 (10)	3.75 ± 0.06 (10)	3.85 ± 0.05 (10)	3.84 ± 0.05 (10)	3.80 ± 0.09 (10)
R. Kidney						
Absolute (g)	1.11 ± 0.03 (10)	1.16 ± 0.03 (10)	1.07 ± 0.02 (10)	1.08 ± 0.04 (10)	1.11 ± 0.01 (10)	1.11 ± 0.04 (10)
Relative (mg/g)	3.86 ± 0.08 (10)	3.96 ± 0.06 (10)	3.82 ± 0.08 (10)	3.82 ± 0.04 (10)	3.81 ± 0.04 (10)	3.83 ± 0.08 (10)
Liver						
Absolute (g)	12.59 ± 0.54 (10)	12.09 ± 0.40 (10)	11.13 ± 0.33 (10)	11.58 ± 0.44 (10)	12.52 ± 0.52 (10)	12.11 ± 0.55 (10)
Relative (mg/g)	43.62 ± 1.56 (10)	41.48 ± 1.24 (10)	39.63 ± 0.73 (10)	41.04 ± 0.92 (10)	42.97 ± 1.53 (10)	41.82 ± 1.43 (10)
Lung						
Absolute (g)	2.14 ± 0.13 (10)	2.06 ± 0.12 (10)	1.78 ± 0.06 (10) *	1.95 ± 0.08 (10)	2.05 ± 0.08 (10)	2.14 ± 0.08 (10)
Relative (mg/g)	7.43 ± 0.42 (10)	7.05 ± 0.39 (10)	6.34 ± 0.22 (10)	6.94 ± 0.28 (10)	7.04 ± 0.26 (10)	7.43 ± 0.24 (10)
R. Testis						
Absolute (g)	1.842 ± 0.037 (10) *	1.819 ± 0.022 (10)	1.745 ± 0.053 (10)	1.845 ± 0.034 (10)	1.743 ± 0.038 (10)	1.732 ± 0.038 (10)
Relative (mg/g)	6.41 ± 0.17 (10)	6.25 ± 0.07 (10)	6.23 ± 0.17 (10)	6.56 ± 0.10 (10)	6.00 ± 0.14 (10)	6.02 ± 0.15 (10)
Thymus						
Absolute (g)	0.640 ± 0.020 (10)	0.627 ± 0.043 (10)	0.603 ± 0.034 (10)	0.589 ± 0.022 (10)	0.651 ± 0.019 (10)	0.643 ± 0.033 (10)
Relative (mg/g)	2.22 ± 0.07 (10)	2.16 ± 0.17 (10)	2.15 ± 0.11 (10)	2.09 ± 0.05 (10)	2.24 ± 0.08 (10)	2.22 ± 0.09 (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.	194.0 ± 3.1 (10)	191.6 ± 4.9 (10)	195.2 ± 2.8 (10)	191.5 ± 3.4 (10)	195.3 ± 4.1 (10)	193.6 ± 3.9 (10)
Heart						
Absolute (g)	0.78 ± 0.02 (10)	0.79 ± 0.03 (10)	0.80 ± 0.02 (10)	0.79 ± 0.02 (10)	0.77 ± 0.03 (10)	0.80 ± 0.03 (10)
Relative (mg/g)	4.00 ± 0.07 (10)	4.11 ± 0.09 (10)	4.08 ± 0.06 (10)	4.10 ± 0.07 (10)	3.95 ± 0.08 (10)	4.11 ± 0.08 (10)
R. Kidney						
Absolute (g)	0.75 ± 0.01 (10)	0.78 ± 0.02 (10)	0.77 ± 0.02 (10)	0.78 ± 0.02 (10)	0.75 ± 0.02 (10)	0.75 ± 0.02 (10)
Relative (mg/g)	3.86 ± 0.06 (10)	4.07 ± 0.08 (10)	3.95 ± 0.06 (10)	4.09 ± 0.06 (10) *	3.86 ± 0.07 (10)	3.87 ± 0.06 (10)
Liver						
Absolute (g)	7.72 ± 0.23 (10)	7.27 ± 0.29 (10)	7.22 ± 0.25 (10)	7.30 ± 0.21 (10)	7.39 ± 0.29 (10)	7.34 ± 0.24 (10)
Relative (mg/g)	39.74 ± 0.80 (10)	37.90 ± 0.84 (10)	36.90 ± 0.82 (10)	38.11 ± 0.68 (10)	37.76 ± 0.87 (10)	37.85 ± 0.73 (10)
Lung						
Absolute (g)	1.42 ± 0.05 (10) **	1.32 ± 0.03 (10)	1.41 ± 0.05 (10)	1.48 ± 0.04 (10)	1.50 ± 0.05 (10)	1.77 ± 0.05 (10) **
Relative (mg/g)	7.31 ± 0.24 (10) **	6.90 ± 0.11 (10)	7.22 ± 0.22 (10)	7.74 ± 0.19 (10)	7.66 ± 0.10 (10)	9.14 ± 0.27 (10) **
Thymus						
Absolute (g)	0.444 ± 0.009 (10)	0.464 ± 0.026 (10)	0.440 ± 0.015 (10)	0.442 ± 0.021 (10)	0.493 ± 0.016 (10)	0.455 ± 0.018 (10)
Relative (mg/g)	2.29 ± 0.05 (10)	2.41 ± 0.09 (10)	2.26 ± 0.07 (10)	2.31 ± 0.11 (10)	2.52 ± 0.06 (10)	2.36 ± 0.10 (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 ****