

Experiment Number: C08010-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Rat/Wistar Han

PA06: Organ Weights Summary

Test Compound: 2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 05/08/2017

Time Report Requested: 14:59:25

Lab: NTP

C Number: C08010-01

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: Day 93 Males

	Treatment Groups (ppm)					
	0	6.25	12.5	25	50	100
Terminal Body Wt.	383.8 ± 7.2 (10)	383.2 ± 8.4 (10)	386.5 ± 5.1 (10)	396.1 ± 11.4 (10)	378.6 ± 15.1 (10)	363.7 ± 7.8 (10)
Heart						
Absolute (g)	1.01 ± 0.02 (10)	1.03 ± 0.03 (10)	1.03 ± 0.01 (10)	1.03 ± 0.02 (10)	1.04 ± 0.05 (10)	1.00 ± 0.03 (10)
Relative (mg/g)	2.64 ± 0.06 (10)	2.67 ± 0.05 (10)	2.67 ± 0.05 (10)	2.62 ± 0.04 (10)	2.76 ± 0.06 (10)	2.74 ± 0.06 (10)
R. Kidney						
Absolute (g)	1.27 ± 0.06 (10)	1.19 ± 0.05 (10)	1.22 ± 0.02 (10)	1.29 ± 0.05 (10)	1.22 ± 0.05 (10)	1.18 ± 0.02 (10)
Relative (mg/g)	3.31 ± 0.14 (10)	3.10 ± 0.09 (10)	3.16 ± 0.06 (10)	3.27 ± 0.10 (10)	3.22 ± 0.08 (10)	3.24 ± 0.07 (10)
Liver						
Absolute (g)	11.40 ± 0.27 (10)	11.52 ± 0.27 (10)	11.82 ± 0.28 (10)	11.73 ± 0.44 (10)	11.51 ± 0.59 (10)	10.74 ± 0.25 (10)
Relative (mg/g)	29.74 ± 0.60 (10)	30.06 ± 0.37 (10)	30.56 ± 0.43 (10)	29.59 ± 0.57 (10)	30.36 ± 0.69 (10)	29.58 ± 0.61 (10)
Lung						
Absolute (g)	1.93 ± 0.09 (10)	2.25 ± 0.14 (10)	2.20 ± 0.12 (10)	2.18 ± 0.15 (10)	2.00 ± 0.15 (10)	2.06 ± 0.08 (10)
Relative (mg/g)	5.04 ± 0.22 (10)	5.89 ± 0.38 (10)	5.69 ± 0.30 (10)	5.52 ± 0.36 (10)	5.31 ± 0.38 (10)	5.67 ± 0.16 (10)
Spleen						
Absolute (g)	0.570 ± 0.014 (10)	0.607 ± 0.031 (10)	0.605 ± 0.032 (10)	0.620 ± 0.027 (10)	0.611 ± 0.031 (10)	0.564 ± 0.025 (10)
Relative (mg/g)	1.49 ± 0.05 (10)	1.58 ± 0.07 (10)	1.57 ± 0.08 (10)	1.57 ± 0.06 (10)	1.62 ± 0.08 (10)	1.55 ± 0.07 (10)
R. Testis						
Absolute (g)	1.733 ± 0.055 (10)	1.714 ± 0.081 (10)	1.780 ± 0.037 (10)	1.808 ± 0.081 (10)	1.774 ± 0.035 (10)	1.752 ± 0.038 (10)
Relative (mg/g)	4.52 ± 0.13 (10)	4.46 ± 0.15 (10)	4.62 ± 0.14 (10)	4.58 ± 0.21 (10)	4.76 ± 0.23 (10)	4.83 ± 0.09 (10)
Thymus						
Absolute (g)	0.500 ± 0.016 (10)	0.509 ± 0.021 (10)	0.482 ± 0.022 (10)	0.540 ± 0.028 (10)	0.474 ± 0.025 (10)	0.447 ± 0.020 (10)
Relative (mg/g)	1.31 ± 0.05 (10)	1.33 ± 0.06 (10)	1.25 ± 0.06 (10)	1.37 ± 0.07 (10)	1.26 ± 0.05 (10)	1.23 ± 0.06 (10)

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Females: Day 94 Females

	Treatment Groups (ppm)					
	0	6.25	12.5	25	50	100
Terminal Body Wt.	227.7 ± 3.4 (10)	225.5 ± 6.1 (10)	234.9 ± 3.3 (10)	235.1 ± 4.5 (10)	224.6 ± 4.6 (10)	223.7 ± 4.1 (10)
Heart						
Absolute (g)	0.68 ± 0.01 (10)	0.71 ± 0.02 (10)	0.71 ± 0.01 (10)	0.71 ± 0.02 (10)	0.70 ± 0.02 (10)	0.72 ± 0.02 (10)
Relative (mg/g)	2.97 ± 0.06 (10) *	3.14 ± 0.05 (10)	3.00 ± 0.03 (10)	3.03 ± 0.07 (10)	3.12 ± 0.06 (10)	3.22 ± 0.05 (10) *
R. Kidney						
Absolute (g)	0.79 ± 0.01 (10)	0.79 ± 0.02 (10)	0.78 ± 0.01 (10)	0.83 ± 0.02 (10)	0.77 ± 0.02 (10)	0.79 ± 0.01 (10)
Relative (mg/g)	3.47 ± 0.06 (10)	3.53 ± 0.08 (10)	3.33 ± 0.05 (10)	3.51 ± 0.06 (10)	3.41 ± 0.06 (10)	3.51 ± 0.06 (10)
Liver						
Absolute (g)	6.89 ± 0.11 (10)	6.91 ± 0.18 (10)	7.27 ± 0.20 (10)	7.13 ± 0.19 (10)	6.97 ± 0.26 (10)	7.00 ± 0.20 (10)
Relative (mg/g)	30.31 ± 0.58 (10)	30.68 ± 0.48 (10)	30.90 ± 0.61 (10)	30.33 ± 0.54 (10)	30.99 ± 0.87 (10)	31.28 ± 0.46 (10)
Lung						
Absolute (g)	1.33 ± 0.04 (10) **	1.37 ± 0.06 (10)	1.45 ± 0.06 (10)	1.39 ± 0.04 (10)	1.41 ± 0.06 (10)	1.65 ± 0.08 (10) **
Relative (mg/g)	5.85 ± 0.14 (10) **	6.09 ± 0.21 (10)	6.16 ± 0.26 (10)	5.93 ± 0.15 (10)	6.26 ± 0.22 (10)	7.39 ± 0.40 (10) **
Spleen						
Absolute (g)	0.399 ± 0.015 (10)	0.415 ± 0.022 (10)	0.407 ± 0.021 (9)	0.405 ± 0.019 (10)	0.390 ± 0.017 (10)	0.409 ± 0.018 (10)
Relative (mg/g)	1.76 ± 0.08 (10)	1.84 ± 0.08 (10)	1.73 ± 0.08 (9)	1.72 ± 0.07 (10)	1.74 ± 0.07 (10)	1.83 ± 0.08 (10)
Thymus						
Absolute (g)	0.393 ± 0.017 (10)	0.366 ± 0.028 (10)	0.456 ± 0.028 (10)	0.420 ± 0.024 (10)	0.413 ± 0.019 (10)	0.349 ± 0.019 (10)
Relative (mg/g)	1.73 ± 0.08 (10)	1.62 ± 0.10 (10)	1.94 ± 0.11 (10)	1.79 ± 0.11 (10)	1.84 ± 0.08 (10)	1.56 ± 0.08 (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 ****