

Experiment Number: C08010-02
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA06: Organ Weights Summary
Test Compound: 2,3-Pentanedione
CAS Number: 600-14-6

Date Report Requested: 05/02/2017
Time Report Requested: 11:43:30
Lab: NTP

C Number:	C08010-02
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																		
Treatment Groups (ppm)																		
	0			6.25			12.5			25			50			100		
Terminal Body Wt.	33.7	± 0.4	(10) **	33.9	± 0.7	(10)	34.4	± 0.5	(10)	34.1	± 0.7	(10)	29.6	± 0.4	(10) **	23.3	± 0.5	(10) **
Heart																		
Absolute (g)	0.14	± 0.00	(10) **	0.14	± 0.00	(10)	0.14	± 0.00	(10)	0.15	± 0.00	(10)	0.13	± 0.00	(10) **	0.11	± 0.00	(10) **
Relative (mg/g)	4.22	± 0.08	(10) **	4.26	± 0.08	(10)	4.17	± 0.09	(10)	4.29	± 0.08	(10)	4.23	± 0.06	(10)	4.82	± 0.12	(10) **
R. Kidney																		
Absolute (g)	0.30	± 0.01	(10) **	0.29	± 0.01	(10)	0.29	± 0.01	(10)	0.29	± 0.01	(10)	0.26	± 0.01	(10) **	0.22	± 0.00	(10) **
Relative (mg/g)	8.77	± 0.23	(10)	8.67	± 0.24	(10)	8.52	± 0.18	(10)	8.61	± 0.16	(10)	8.66	± 0.12	(10)	9.24	± 0.20	(10)
Liver																		
Absolute (g)	1.44	± 0.02	(10) **	1.50	± 0.04	(10)	1.42	± 0.03	(10)	1.48	± 0.05	(10)	1.24	± 0.03	(10) **	1.01	± 0.03	(10) **
Relative (mg/g)	42.70	± 0.86	(10)	44.21	± 0.99	(10)	41.46	± 1.13	(10)	43.41	± 1.05	(10)	42.04	± 1.02	(10)	43.10	± 0.85	(10)
Lung																		
Absolute (g)	0.20	± 0.00	(10)	0.21	± 0.00	(10)	0.20	± 0.00	(10)	0.20	± 0.00	(10)	0.21	± 0.00	(10)	0.20	± 0.01	(10)
Relative (mg/g)	6.04	± 0.13	(10) **	6.16	± 0.16	(10)	5.94	± 0.13	(10)	5.85	± 0.14	(10)	6.99	± 0.20	(10) **	8.59	± 0.18	(10) **
Spleen																		
Absolute (g)	0.061	± 0.002	(10) **	0.062	± 0.002	(10)	0.062	± 0.001	(10)	0.060	± 0.003	(10)	0.057	± 0.002	(10)	0.049	± 0.002	(10) **
Relative (mg/g)	1.82	± 0.07	(10) *	1.84	± 0.10	(10)	1.80	± 0.03	(10)	1.76	± 0.07	(10)	1.93	± 0.05	(10)	2.11	± 0.08	(10) *
R. Testis																		
Absolute (g)	0.110	± 0.002	(10) **	0.113	± 0.003	(10)	0.104	± 0.003	(10)	0.104	± 0.004	(10)	0.102	± 0.003	(10)	0.100	± 0.003	(10) *
Relative (mg/g)	3.27	± 0.06	(10) **	3.33	± 0.11	(10)	3.04	± 0.08	(10)	3.06	± 0.11	(10)	3.45	± 0.11	(10)	4.31	± 0.13	(10) **
Thymus																		
Absolute (g)	0.043	± 0.003	(10) **	0.049	± 0.005	(10)	0.047	± 0.004	(10)	0.044	± 0.003	(10)	0.039	± 0.003	(10)	0.033	± 0.001	(10)
Relative (mg/g)	1.26	± 0.07	(10)	1.42	± 0.14	(10)	1.35	± 0.11	(10)	1.27	± 0.08	(10)	1.33	± 0.11	(10)	1.41	± 0.08	(10)

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Females

Treatment Groups (ppm)

	0			6.25			12.5			25			50			100		
Terminal Body Wt.	29.1	± 0.6	(10) **	29.7	± 0.7	(10)	28.9	± 0.6	(10)	29.4	± 0.7	(10)	25.1	± 0.5	(10) **	20.3	± 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)	0.12	± 0.00	(10) **	0.10	± 0.00	(10) **
Relative (mg/g)	4.52	± 0.11	(10)	4.53	± 0.13	(10)	4.51	± 0.09	(10)	4.53	± 0.11	(10)	4.59	± 0.10	(10)	4.70	± 0.09	(10)
R. Kidney																		
Absolute (g)	0.20	± 0.00	(10) **	0.21	± 0.01	(10)	0.20	± 0.00	(10)	0.21	± 0.00	(10)	0.18	± 0.00	(10) **	0.15	± 0.01	(10) **
Relative (mg/g)	6.95	± 0.11	(10) **	7.03	± 0.14	(10)	6.93	± 0.17	(10)	7.05	± 0.15	(10)	7.19	± 0.12	(10)	7.43	± 0.10	(10) *
Liver																		
Absolute (g)	1.36	± 0.05	(10) **	1.36	± 0.03	(10)	1.29	± 0.02	(10)	1.39	± 0.08	(10)	1.08	± 0.03	(10) **	0.87	± 0.03	(10) **
Relative (mg/g)	46.66	± 1.22	(10) **	45.88	± 0.73	(10)	44.71	± 1.09	(10)	47.04	± 2.41	(10)	43.02	± 0.80	(10)	42.92	± 0.84	(10)
Lung																		
Absolute (g)	0.22	± 0.01	(10) **	0.21	± 0.01	(10)	0.21	± 0.00	(10)	0.21	± 0.00	(10)	0.19	± 0.00	(10) **	0.19	± 0.00	(10) **
Relative (mg/g)	7.49	± 0.26	(10) **	7.12	± 0.22	(10)	7.34	± 0.11	(10)	7.27	± 0.15	(10)	7.68	± 0.25	(10)	9.28	± 0.17	(10) **
Spleen																		
Absolute (g)	0.096	± 0.006	(10) **	0.095	± 0.003	(10)	0.088	± 0.002	(10)	0.089	± 0.003	(10)	0.074	± 0.003	(10) **	0.058	± 0.002	(10) **
Relative (mg/g)	3.30	± 0.18	(10) **	3.20	± 0.11	(10)	3.05	± 0.11	(10)	3.03	± 0.09	(10)	2.96	± 0.11	(10)	2.85	± 0.08	(10) *
Thymus																		
Absolute (g)	0.050	± 0.002	(10) **	0.047	± 0.002	(10)	0.052	± 0.002	(10)	0.052	± 0.003	(10)	0.043	± 0.002	(10)	0.033	± 0.002	(10) **
Relative (mg/g)	1.70	± 0.07	(10)	1.59	± 0.07	(10)	1.79	± 0.08	(10)	1.75	± 0.08	(10)	1.72	± 0.07	(10)	1.62	± 0.07	(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 ****