

Study Number: C16019-02
Test Type: TOX
Route: Dosing in Water
Species/Strain: Mouse/B6C3F1/N

PA06: Organ Weights Summary
Test Compound: Thallium (I) Sulfate
CAS Number: 7446-18-6

Date Report Requested: 01/10/2023
Time Report Requested: 09:52:15
Lab: Battelle

Study Number: C16019-02
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.4.3
Stat Version: A

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Males															
Treatment Groups (mg/L)															
	0			6.25			12.5			25			50		
Terminal Body Wt. (g)	24.4	± 0.9	(5) **	24.3	± 0.3	(5)	23.2	± 0.8	(5)	20.5	± 0.6	(5) **	18.9	± 0.4	(5) **
R. Epididymis															
Absolute (g)	0.0363	± 0.0013	(5) **	0.0317	± 0.0010	(5)	0.0333	± 0.0015	(5)	0.0309	± 0.0037	(5)	0.0282	± 0.0018	(5) *
Relative (mg/g)	1.50	± 0.07	(5)	1.30	± 0.04	(5)	1.44	± 0.06	(5)	1.50	± 0.15	(5)	1.49	± 0.08	(5)
L. Epididymis															
Absolute (g)	0.0363	± 0.0024	(5)	0.0273	± 0.0033	(5)	0.0362	± 0.0029	(5)	0.0322	± 0.0033	(5)	0.0280	± 0.0021	(5)
Relative (mg/g)	1.49	± 0.09	(5)	1.12	± 0.14	(5)	1.58	± 0.17	(5)	1.56	± 0.14	(5)	1.49	± 0.12	(5)
Heart															
Absolute (g)	0.13	± 0.01	(5) **	0.12	± 0.00	(4)	0.14	± 0.00	(5)	0.12	± 0.01	(5)	0.10	± 0.00	(5) **
Relative (mg/g)	5.49	± 0.30	(5)	5.01	± 0.11	(4)	6.08	± 0.29	(5)	5.64	± 0.27	(5)	5.29	± 0.16	(5)
R. Kidney															
Absolute (g)	0.22	± 0.01	(5) *	0.21	± 0.01	(5)	0.21	± 0.01	(5)	0.19	± 0.01	(5)	0.20	± 0.01	(5)
Relative (mg/g)	9.19	± 0.36	(5) **	8.79	± 0.25	(5)	9.23	± 0.28	(5)	9.47	± 0.09	(5)	10.58	± 0.16	(5) **
L. Kidney															
Absolute (g)	0.21	± 0.01	(5) *	0.20	± 0.01	(5)	0.19	± 0.01	(5)	0.18	± 0.00	(5) *	0.19	± 0.01	(5)
Relative (mg/g)	8.76	± 0.19	(5) *	8.13	± 0.31	(5)	8.37	± 0.24	(5)	8.70	± 0.13	(5)	9.93	± 0.22	(5) **
Liver															
Absolute (g)	1.40	± 0.10	(5) **	1.39	± 0.05	(5)	1.21	± 0.05	(5) *	1.11	± 0.04	(5) **	0.84	± 0.04	(5) **
Relative (mg/g)	57.05	± 2.17	(5) **	57.07	± 1.43	(5)	52.32	± 0.61	(5)	54.14	± 0.31	(5)	44.61	± 1.29	(5) **
Lung															
Absolute (g)	0.27	± 0.03	(5) *	0.23	± 0.04	(5)	0.30	± 0.03	(5)	0.27	± 0.02	(5)	0.16	± 0.01	(5) *
Relative (mg/g)	11.12	± 0.98	(5)	9.53	± 1.59	(5)	13.11	± 1.16	(5)	13.11	± 1.02	(5)	8.59	± 0.60	(5)
R. Testis															
Absolute (g)	0.099	± 0.002	(5)	0.096	± 0.002	(5)	0.098	± 0.002	(5)	0.097	± 0.005	(5)	0.098	± 0.002	(5)
Relative (mg/g)	4.09	± 0.14	(5) **	3.96	± 0.10	(5)	4.26	± 0.16	(5)	4.73	± 0.13	(5) **	5.20	± 0.19	(5) **
L. Testis															
Absolute (g)	0.101	± 0.003	(5)	0.093	± 0.001	(5)	0.093	± 0.002	(5)	0.093	± 0.005	(5)	0.095	± 0.002	(5)
Relative (mg/g)	4.15	± 0.14	(5) **	3.84	± 0.05	(5)	4.01	± 0.15	(5)	4.52	± 0.10	(5)	5.03	± 0.20	(5) **

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Males

Treatment Groups (mg/L)

	0	6.25	12.5	25	50
Thymus					
Absolute (g)	0.069 ± 0.014 (5) **	0.065 ± 0.006 (5)	0.058 ± 0.007 (5)	0.030 ± 0.003 (5) **	0.033 ± 0.006 (5) **
Relative (mg/g)	2.81 ± 0.50 (5) **	2.68 ± 0.21 (5)	2.51 ± 0.29 (5)	1.46 ± 0.18 (5) *	1.76 ± 0.33 (5) *

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Females															
Treatment Groups (mg/L)															
	0			6.25			12.5			25			50		
Terminal Body Wt. (g)	20.1	± 0.7	(5) **	20.5	± 0.5	(5)	20.4	± 0.1	(5)	18.0	± 0.4	(5) *	15.4	± 0.8	(5) **
Heart															
Absolute (g)	0.11	± 0.00	(5)	0.12	± 0.00	(5)	0.12	± 0.01	(5)	0.10	± 0.00	(5)	0.11	± 0.01	(5)
Relative (mg/g)	5.68	± 0.19	(5)	6.06	± 0.27	(5)	6.09	± 0.49	(5)	5.58	± 0.28	(5)	7.05	± 0.48	(5) *
R. Kidney															
Absolute (g)	0.14	± 0.01	(5)	0.15	± 0.01	(5)	0.16	± 0.01	(5)	0.15	± 0.01	(5)	0.16	± 0.01	(5)
Relative (mg/g)	7.04	± 0.35	(5) **	7.51	± 0.25	(5)	7.96	± 0.28	(5)	8.58	± 0.26	(5) **	10.49	± 0.42	(5) **
L. Kidney															
Absolute (g)	0.13	± 0.01	(5)	0.15	± 0.01	(5)	0.14	± 0.01	(5)	0.14	± 0.00	(5)	0.15	± 0.01	(5)
Relative (mg/g)	6.45	± 0.36	(5) **	7.12	± 0.25	(5)	7.07	± 0.23	(5)	7.69	± 0.24	(5) *	9.66	± 0.63	(5) **
Liver															
Absolute (g)	1.03	± 0.08	(5) **	1.08	± 0.04	(5)	1.05	± 0.04	(5)	0.86	± 0.04	(5) *	0.69	± 0.05	(5) **
Relative (mg/g)	51.17	± 2.10	(5) **	52.41	± 1.13	(5)	51.74	± 1.94	(5)	47.95	± 2.12	(5)	44.42	± 1.50	(5) *
Lung															
Absolute (g)	0.23	± 0.01	(5)	0.28	± 0.00	(5)	0.26	± 0.02	(5)	0.26	± 0.01	(5)	0.23	± 0.02	(5)
Relative (mg/g)	11.61	± 0.86	(5) **	13.57	± 0.38	(5)	12.95	± 1.15	(5)	14.43	± 0.90	(5) *	15.17	± 0.95	(5) *
R. Ovary															
Absolute (g)	0.0079	± 0.0007	(5)	0.0067	± 0.0016	(5)	0.0104	± 0.0028	(5)	0.0067	± 0.0006	(5)	0.0081	± 0.0018	(5)
Relative (mg/g)	0.39	± 0.03	(5)	0.33	± 0.08	(5)	0.51	± 0.14	(5)	0.37	± 0.04	(5)	0.51	± 0.09	(5)
L. Ovary															
Absolute (g)	0.0064	± 0.0007	(5)	0.0069	± 0.0016	(5)	0.0100	± 0.0024	(5)	0.0058	± 0.0004	(5)	0.0079	± 0.0015	(5)
Relative (mg/g)	0.32	± 0.03	(5)	0.34	± 0.08	(5)	0.49	± 0.11	(5)	0.32	± 0.03	(5)	0.52	± 0.10	(5)
Thymus															
Absolute (g)	0.084	± 0.007	(5) **	0.078	± 0.003	(5)	0.078	± 0.004	(5)	0.057	± 0.004	(5) **	0.042	± 0.007	(5) **
Relative (mg/g)	4.14	± 0.22	(5) **	3.81	± 0.13	(5)	3.85	± 0.17	(5)	3.16	± 0.24	(5) **	2.68	± 0.35	(5) **

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

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 Williams 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 $P \leq 0.01$

One male heart weight value in the 6.25 mg/L group was excluded because it was an outlier.

**** END OF REPORT ****