

Study Number: C03038-04
Test Type: TOX
Route: Dosing in Water
Species/Strain: Mouse/B6C3F1/N

PA06: Organ Weights Summary
Test Compound: Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 07/02/2021
Time Report Requested: 13:34:45
Lab: Battelle

Study Number: C03038-04
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.2.7
Stat Version: A

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Males: 3 Month Int Male

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	34.7	± 0.8	(10)	35.3	± 1.2	(10)	37.0	± 1.1	(10)	31.2	± 1.0	(10)
Bone (femur)												
Absolute (g)	0.1692 ± 0.0062 (10)			0.1838 ± 0.0089 (10)			0.1793 ± 0.0107 (10)			0.1680 ± 0.0067 (10)		
Relative (mg/g)	4.88 ± 0.17 (10)			5.26 ± 0.30 (10)			4.87 ± 0.33 (10)			5.46 ± 0.32 (10)		
Intestine, small												
Absolute (g)	1.493 ± 0.101 (10)			1.511 ± 0.083 (10)			1.492 ± 0.077 (10)			1.327 ± 0.096 (10)		
Relative (mg/g)	42.85 ± 2.41 (10)			43.15 ± 2.61 (10)			40.77 ± 2.83 (10)			42.54 ± 2.64 (10)		
Kidneys												
Absolute (g)	0.52 ± 0.01 (10)			0.57 ± 0.01 (10) *			0.59 ± 0.01 (10) **			0.50 ± 0.01 (10)		
Relative (mg/g)	15.03 ± 0.36 (10)			16.40 ± 0.48 (10) *			15.91 ± 0.36 (10)			16.19 ± 0.27 (10)		
Liver												
Absolute (g)	1.37 ± 0.03 (10)			1.43 ± 0.03 (10)			1.51 ± 0.06 (10)			1.30 ± 0.03 (10)		
Relative (mg/g)	39.55 ± 0.30 (10) **			40.72 ± 0.95 (10)			40.74 ± 0.62 (10)			41.83 ± 0.67 (10) *		
Stomach, forestomach												
Absolute (g)	0.034 ± 0.002 (10)			0.036 ± 0.003 (10)			0.039 ± 0.003 (10)			0.035 ± 0.002 (10)		
Relative (mg/g)	0.98 ± 0.05 (10)			1.02 ± 0.08 (10)			1.05 ± 0.07 (10)			1.12 ± 0.06 (10)		
Stomach, glandular												
Absolute (g)	0.129 ± 0.003 (10)			0.128 ± 0.004 (10)			0.133 ± 0.005 (10)			0.125 ± 0.005 (10)		
Relative (mg/g)	3.71 ± 0.09 (10)			3.64 ± 0.13 (10)			3.60 ± 0.14 (10)			4.04 ± 0.19 (10)		

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Lab: Battelle

Males: 6 Month Int Male

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	45.7	± 0.8	(10) **	42.5	± 0.8	(10) *	42.1	± 1.1	(10) **	39.8	± 0.8	(10) **
Bone (femur)												
Absolute (g)	0.1933 ± 0.0108 (10)			0.1867 ± 0.0061 (10)			0.1934 ± 0.0111 (10)			0.1876 ± 0.0074 (10)		
Relative (mg/g)	4.23 ± 0.22 (10)			4.41 ± 0.16 (10)			4.58 ± 0.20 (10)			4.72 ± 0.19 (10)		
Intestine, small												
Absolute (g)	1.438 ± 0.080 (10)			1.292 ± 0.058 (10)			1.318 ± 0.038 (10)			1.288 ± 0.028 (10)		
Relative (mg/g)	31.30 ± 1.16 (10)			30.37 ± 1.06 (10)			31.36 ± 0.85 (10)			32.51 ± 1.13 (10)		
Kidneys												
Absolute (g)	0.68 ± 0.02 (10)			0.67 ± 0.02 (10)			0.69 ± 0.02 (10)			0.62 ± 0.01 (10) *		
Relative (mg/g)	14.93 ± 0.30 (10)			15.87 ± 0.20 (10)			16.47 ± 0.30 (10) **			15.69 ± 0.33 (10)		
Liver												
Absolute (g)	2.03 ± 0.05 (10) **			1.77 ± 0.10 (10) *			1.72 ± 0.09 (10) **			1.60 ± 0.05 (10) **		
Relative (mg/g)	44.45 ± 0.90 (10) *			41.50 ± 1.63 (10)			40.67 ± 1.12 (10)			40.23 ± 0.66 (10) *		
Stomach, forestomach												
Absolute (g)	0.052 ± 0.004 (10) *			0.044 ± 0.003 (10)			0.046 ± 0.005 (10)			0.040 ± 0.002 (10) *		
Relative (mg/g)	1.13 ± 0.07 (10)			1.03 ± 0.06 (10)			1.09 ± 0.11 (10)			1.00 ± 0.06 (10)		
Stomach, glandular												
Absolute (g)	0.182 ± 0.011 (10) *			0.154 ± 0.008 (10)			0.161 ± 0.007 (10)			0.154 ± 0.007 (10)		
Relative (mg/g)	3.98 ± 0.25 (10)			3.62 ± 0.13 (10)			3.81 ± 0.13 (10)			3.88 ± 0.21 (10)		

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Males: 12 Month Int Male

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	49.4	± 1.0	(10)	48.1	± 0.7	(10)	48.1	± 0.8	(10)	46.9	± 0.8	(10)
Bone (femur)												
Absolute (g)	0.1633	± 0.0110	(10) **	0.1671	± 0.0105	(10)	0.1910	± 0.0141	(10)	0.1960	± 0.0087	(10)
Relative (mg/g)	3.32	± 0.24	(10) **	3.48	± 0.23	(10)	3.96	± 0.26	(10)	4.18	± 0.17	(10) *
Intestine, small												
Absolute (g)	1.452	± 0.114	(10)	1.599	± 0.115	(10)	1.534	± 0.052	(10)	1.537	± 0.074	(10)
Relative (mg/g)	29.25	± 2.01	(10)	33.23	± 2.36	(10)	31.91	± 0.91	(10)	32.77	± 1.40	(10)
Kidneys												
Absolute (g)	0.81	± 0.02	(10)	0.80	± 0.02	(10)	0.82	± 0.03	(10)	0.78	± 0.02	(10)
Relative (mg/g)	16.43	± 0.29	(10)	16.70	± 0.25	(10)	17.12	± 0.47	(10)	16.62	± 0.29	(10)
Liver												
Absolute (g)	2.42	± 0.15	(10)	2.18	± 0.05	(10)	2.36	± 0.14	(10)	2.13	± 0.08	(10)
Relative (mg/g)	48.93	± 3.00	(10)	45.37	± 0.62	(10)	49.18	± 3.15	(10)	45.56	± 1.79	(10)
Stomach, forestomach												
Absolute (g)	0.056	± 0.007	(10)	0.050	± 0.002	(10)	0.064	± 0.006	(10)	0.058	± 0.004	(10)
Relative (mg/g)	1.14	± 0.13	(10)	1.03	± 0.04	(10)	1.34	± 0.13	(10)	1.22	± 0.08	(10)
Stomach, glandular												
Absolute (g)	0.184	± 0.011	(10)	0.182	± 0.005	(10)	0.192	± 0.008	(10)	0.162	± 0.008	(10)
Relative (mg/g)	3.70	± 0.17	(10)	3.79	± 0.12	(10)	3.99	± 0.15	(10)	3.47	± 0.18	(10)

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Males: 18 Month Int Male

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	49.4	± 1.7	(9) *	48.4	± 0.9	(10)	48.3	± 1.2	(9)	46.4	± 1.0	(6)
Bone (femur)												
Absolute (g)	0.1890 ± 0.0148 (9)			0.1813 ± 0.0108 (10)			0.1834 ± 0.0167 (9)			0.2212 ± 0.0238 (6)		
Relative (mg/g)	3.86 ± 0.31 (9)			3.77 ± 0.25 (10)			3.76 ± 0.27 (9)			4.80 ± 0.57 (6)		
Intestine, small												
Absolute (g)	1.418 ± 0.115 (9)			1.451 ± 0.119 (10)			1.326 ± 0.050 (9)			1.191 ± 0.123 (6)		
Relative (mg/g)	29.24 ± 2.98 (9)			30.17 ± 2.69 (10)			27.51 ± 0.94 (9)			25.65 ± 2.52 (6)		
Kidneys												
Absolute (g)	0.79 ± 0.02 (9)			0.79 ± 0.02 (10)			0.85 ± 0.05 (9)			0.74 ± 0.02 (6)		
Relative (mg/g)	16.07 ± 0.36 (9)			16.35 ± 0.24 (10)			17.69 ± 0.94 (9)			15.90 ± 0.35 (6)		
Liver												
Absolute (g)	2.25 ± 0.19 (9)			2.45 ± 0.20 (10)			2.79 ± 0.30 (9)			1.86 ± 0.14 (6)		
Relative (mg/g)	46.98 ± 6.36 (9)			50.98 ± 4.76 (10)			58.20 ± 6.42 (9)			39.95 ± 2.41 (6)		
Stomach, forestomach												
Absolute (g)	0.065 ± 0.006 (9)			0.058 ± 0.004 (10)			0.052 ± 0.006 (9)			0.055 ± 0.004 (6)		
Relative (mg/g)	1.31 ± 0.11 (9)			1.19 ± 0.09 (10)			1.08 ± 0.11 (9)			1.18 ± 0.10 (6)		
Stomach, glandular												
Absolute (g)	0.188 ± 0.008 (9)			0.183 ± 0.007 (10)			0.182 ± 0.008 (9)			0.169 ± 0.011 (6)		
Relative (mg/g)	3.83 ± 0.17 (9)			3.78 ± 0.12 (10)			3.76 ± 0.13 (9)			3.63 ± 0.19 (6)		

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Females: 3 Month Int Fem

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	27.3	± 1.5	(10)	24.8	± 0.7	(10)	29.2	± 1.0	(10)	24.8	± 0.9	(10)
Bone (femur)												
Absolute (g)	0.1723	± 0.0086	(10)	0.1575	± 0.0059	(10)	0.1685	± 0.0101	(10)	0.1636	± 0.0098	(10)
Relative (mg/g)	6.43	± 0.40	(10)	6.35	± 0.20	(10)	5.74	± 0.19	(10)	6.67	± 0.45	(10)
Intestine, small												
Absolute (g)	1.380	± 0.075	(10)	1.224	± 0.075	(10)	1.371	± 0.078	(10)	1.331	± 0.067	(10)
Relative (mg/g)	51.60	± 3.42	(10)	49.17	± 2.39	(10)	47.15	± 2.53	(10)	53.73	± 2.17	(10)
Kidneys												
Absolute (g)	0.32	± 0.01	(10)	0.31	± 0.01	(10)	0.32	± 0.01	(10)	0.31	± 0.01	(10)
Relative (mg/g)	11.88	± 0.33	(10)	12.58	± 0.28	(10)	10.89	± 0.30	(10) *	12.41	± 0.21	(10)
Liver												
Absolute (g)	1.13	± 0.04	(10)	1.09	± 0.03	(10)	1.17	± 0.02	(10)	1.13	± 0.04	(10)
Relative (mg/g)	41.97	± 1.23	(10)	43.76	± 0.73	(10)	40.24	± 0.92	(10)	45.60	± 0.89	(10) *
Stomach, forestomach												
Absolute (g)	0.036	± 0.003	(10)	0.034	± 0.002	(10)	0.040	± 0.003	(10)	0.037	± 0.003	(10)
Relative (mg/g)	1.34	± 0.12	(10)	1.36	± 0.07	(10)	1.35	± 0.08	(10)	1.51	± 0.16	(10)
Stomach, glandular												
Absolute (g)	0.121	± 0.006	(10)	0.127	± 0.004	(10)	0.131	± 0.005	(10)	0.125	± 0.005	(10)
Relative (mg/g)	4.52	± 0.26	(10)	5.14	± 0.22	(10)	4.54	± 0.25	(10)	5.05	± 0.19	(10)

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Females: 6 Month Int Fem

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	39.8	± 1.3	(10)	38.7	± 1.0	(10)	39.3	± 1.5	(10)	39.4	± 1.4	(10)
Bone (femur)												
Absolute (g)	0.1696	± 0.0105	(10)	0.1961	± 0.0070	(10)	0.1656	± 0.0117	(10)	0.1781	± 0.0111	(10)
Relative (mg/g)	4.31	± 0.29	(10)	5.10	± 0.22	(10)	4.24	± 0.31	(10)	4.63	± 0.43	(10)
Intestine, small												
Absolute (g)	1.248	± 0.043	(10)	1.210	± 0.058	(10)	1.215	± 0.070	(10)	1.178	± 0.066	(10)
Relative (mg/g)	31.78	± 1.70	(10)	31.57	± 1.88	(10)	30.97	± 1.54	(10)	30.52	± 2.52	(10)
Kidneys												
Absolute (g)	0.36	± 0.01	(10)	0.36	± 0.01	(10)	0.36	± 0.01	(10)	0.36	± 0.01	(10)
Relative (mg/g)	9.07	± 0.26	(10)	9.36	± 0.24	(10)	9.10	± 0.24	(10)	9.15	± 0.30	(10)
Liver												
Absolute (g)	1.37	± 0.03	(10)	1.34	± 0.02	(10)	1.36	± 0.04	(10)	1.34	± 0.03	(10)
Relative (mg/g)	34.63	± 0.77	(10)	34.75	± 0.59	(10)	34.83	± 0.69	(10)	34.28	± 0.86	(10)
Stomach, forestomach												
Absolute (g)	0.042	± 0.003	(10)	0.044	± 0.003	(10)	0.041	± 0.003	(10)	0.038	± 0.002	(10)
Relative (mg/g)	1.07	± 0.09	(10)	1.14	± 0.06	(10)	1.04	± 0.07	(10)	0.98	± 0.05	(10)
Stomach, glandular												
Absolute (g)	0.157	± 0.007	(10)	0.169	± 0.010	(10)	0.159	± 0.007	(10)	0.146	± 0.008	(10)
Relative (mg/g)	3.99	± 0.26	(10)	4.39	± 0.28	(10)	4.06	± 0.20	(10)	3.70	± 0.14	(10)

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Females: 12 Month Int Fem

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	53.9	± 0.8	(10) **	50.3	± 1.7	(10)	51.1	± 1.6	(10)	46.7	± 1.6	(10) **
Bone (femur)												
Absolute (g)	0.1710 ± 0.0084 (10)			0.1668 ± 0.0088 (10)			0.1885 ± 0.0088 (10)			0.1690 ± 0.0077 (10)		
Relative (mg/g)	3.18 ± 0.16 (10) *			3.36 ± 0.23 (10)			3.72 ± 0.20 (10)			3.63 ± 0.15 (10)		
Intestine, small												
Absolute (g)	1.188 ± 0.056 (10)			1.104 ± 0.061 (10)			1.177 ± 0.038 (10)			1.283 ± 0.078 (10)		
Relative (mg/g)	22.11 ± 1.19 (10) **			21.90 ± 0.88 (10)			23.15 ± 0.82 (10)			27.69 ± 1.75 (10) **		
Kidneys												
Absolute (g)	0.41 ± 0.01 (10)			0.39 ± 0.02 (10)			0.41 ± 0.01 (10)			0.39 ± 0.01 (10)		
Relative (mg/g)	7.51 ± 0.19 (10) **			7.80 ± 0.14 (10)			8.10 ± 0.16 (10) *			8.34 ± 0.27 (10) **		
Liver												
Absolute (g)	1.61 ± 0.08 (10)			1.48 ± 0.07 (10)			1.58 ± 0.05 (10)			1.43 ± 0.03 (10)		
Relative (mg/g)	29.84 ± 1.34 (10)			29.38 ± 0.98 (10)			30.91 ± 0.71 (10)			30.97 ± 1.09 (10)		
Stomach, forestomach												
Absolute (g)	0.043 ± 0.003 (10)			0.048 ± 0.005 (10)			0.044 ± 0.004 (10)			0.047 ± 0.003 (10)		
Relative (mg/g)	0.80 ± 0.06 (10)			0.95 ± 0.09 (10)			0.87 ± 0.09 (10)			1.03 ± 0.09 (10)		
Stomach, glandular												
Absolute (g)	0.180 ± 0.008 (10)			0.167 ± 0.008 (10)			0.162 ± 0.006 (10)			0.164 ± 0.005 (10)		
Relative (mg/g)	3.33 ± 0.12 (10)			3.31 ± 0.11 (10)			3.18 ± 0.11 (10)			3.53 ± 0.11 (10)		

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Females: 18 Month Int Fem

	Treatment Groups (mg/L)											
	0			500			1000			2000		
Terminal Body Wt. (g)	56.3	± 1.3	(10)	55.0	± 1.9	(9)	53.3	± 2.6	(9)	56.3	± 1.2	(10)
Bone (femur)												
Absolute (g)	0.1937 ± 0.0115 (10)			0.1911 ± 0.0140 (9)			0.2057 ± 0.0117 (9)			0.1815 ± 0.0135 (10)		
Relative (mg/g)	3.43 ± 0.16 (10)			3.50 ± 0.27 (9)			3.95 ± 0.32 (9)			3.22 ± 0.23 (10)		
Intestine, small												
Absolute (g)	1.209 ± 0.092 (10)			1.077 ± 0.057 (9)			1.163 ± 0.120 (9)			1.167 ± 0.042 (10)		
Relative (mg/g)	21.46 ± 1.51 (10)			19.72 ± 1.12 (9)			22.14 ± 2.53 (9)			20.77 ± 0.76 (10)		
Kidneys												
Absolute (g)	0.44 ± 0.01 (10)			0.44 ± 0.02 (9)			0.45 ± 0.02 (9)			0.47 ± 0.01 (10)		
Relative (mg/g)	7.72 ± 0.12 (10) *			8.06 ± 0.23 (9)			8.55 ± 0.56 (9)			8.33 ± 0.17 (10)		
Liver												
Absolute (g)	1.57 ± 0.07 (10)			1.51 ± 0.06 (9)			1.54 ± 0.06 (9)			1.61 ± 0.05 (10)		
Relative (mg/g)	27.91 ± 0.78 (10)			27.61 ± 0.72 (9)			29.12 ± 1.08 (9)			28.63 ± 0.57 (10)		
Stomach, forestomach												
Absolute (g)	0.048 ± 0.003 (10)			0.045 ± 0.003 (9)			0.048 ± 0.005 (9)			0.047 ± 0.003 (10)		
Relative (mg/g)	0.85 ± 0.05 (10)			0.83 ± 0.05 (9)			0.91 ± 0.08 (9)			0.83 ± 0.06 (10)		
Stomach, glandular												
Absolute (g)	0.173 ± 0.005 (10)			0.170 ± 0.007 (9)			0.166 ± 0.009 (9)			0.182 ± 0.006 (10)		
Relative (mg/g)	3.08 ± 0.09 (10)			3.12 ± 0.19 (9)			3.19 ± 0.26 (9)			3.24 ± 0.09 (10)		

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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 $P \leq 0.01$

**** END OF REPORT ****