

**Disposition of Radioactivity 72 Hours Following Dermal Administration of 1.5 mg/kg
[¹⁴C]Dimethylamine borane to Male Harlan Sprague Dawley Rats – Group 1b**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1b-1	1b-2	1b-3	1b-4	Mean	SD
Urine	0 to 4	0.665	0	0.431	0.182	0.32	0.29
Urine	4 to 8	0.711	1.23	0.994	0.396	0.832	0.36
Urine	8 to 12	1.19	0.923	1.06	2.16	1.33	0.565
Urine	12 to 24	3.48	2.55	3.24	4.39	3.42	0.758
Urine	24 to 48	6.11	2.99	6.66	8.64	6.1	2.34
Urine	48 to 72 ^a	5.76	5.32	7.38	8.82	6.82	1.6
-	Subtotal	17.9	13.0	19.8	24.6	18.8	4.79
Feces	0 to 24	0.336	0.666	0.965	1.13	0.773	0.348
Feces	24 to 48	0.375	0.594	0.55	0.75	0.567	0.154
Feces	48 to 72	0.148	0.449	0.654	1.32	0.644	0.499
-	Subtotal	0.859	1.71	2.17	3.2	1.98	0.975
CO ₂	0 to 4	0.000	0.000	0.000	0.000	0.000	0.000
CO ₂	4 to 8	0.005	0.002	0	0.002	0.002	0.001
CO ₂	8 to 12	0.001	0.002	0.002	0.002	0.002	0
CO ₂	12 to 24	0.038	0.007	0.006	0.005	0.014	0.016
CO ₂	24 to 48	0.077	0.032	0.13	0.153	0.098	0.054
CO ₂	48 to 72	0.035	0.083	0.092	0.076	0.071	0.025
-	Subtotal	0.158	0.128	0.232	0.241	0.19	0.055
VOC-front	0 to 4	0.505	0.87	0.451	0.383	0.552	0.218
VOC-front	4 to 8	0.285	0.011	0.173	0.286	0.189	0.13
VOC-front	8 to 12	0.204	0.133	0.135	0.024	0.124	0.074
VOC-front	12 to 24	0.399	0.16	0.264	0.366	0.297	0.108
VOC-front	24 to 48	0.354	0.18	0.419	0.572	0.381	0.163
VOC-front	48 to 72	0.12	0.293	0.55	0.347	0.327	0.177
-	Subtotal	1.87	1.65	1.99	1.98	1.87	0.16
VOC- back	0 to 4	0.007	0.013	0.008	0.007	0.009	0.002
VOC- back	4 to 8	0.009	0.204	0.013	0.022	0.062	0.094
VOC- back	8 to 12	0.01	0.004	0.008	0.277	0.074	0.134
VOC- back	12 to 24	0.059	0.017	0.059	0.143	0.069	0.052
VOC- back	24 to 48	0.03	0.029	0.082	0.083	0.056	0.03
VOC- back	48 to 72	0.019	0.049	0.087	0.06	0.054	0.028
-	Subtotal	0.137	0.318	0.26	0.594	0.327	0.193
Cage Rinse	72	5.89	10.2	7.97	6.39	7.61	1.92
Total	-	26.81	27.01	32.42	37.01	30.81	4.88

**Disposition of Radioactivity 72 Hours Following Dermal Administration of 1.5 mg/kg
[¹⁴C]Dimethylamine borane to Male Harlan Sprague Dawley Rats – Group 1b**

Distribution in Tissues (72 h)

Tissue	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Skin (abdominal) ^b	39	13.4	51.3	56.5	0.498	0.162
Bladder	388	577	306	305	0.009	0.012
Muscle (hind leg) ^b	5.64	2.56	7.33	8.02	0.153	0.066
Blood ^b	1.68	0.6	Unity	-	0.008	0.003
Plasma ^b	2.57	0.83	3.41	3.75	0.008	0.002
Spleen	7.55	3.42	8.59	7.58	0.001	0.001
Liver	7.33	2.48	10.3	12	0.015	0.003
Kidney	11.7	5.74	13.6	13	0.006	0.003
Brain	4.06	1.92	4.01	2.38	0.002	0.001
Heart	3.25	1	3.71	2.78	0.001	0.000
Lung	4.64	1.26	6.57	7.69	0.002	0.001
Stomach	246	310	354	506	0.116	0.164
Cecum	135	125	241	367	0.031	0.033
Large Intestine	63.2	80.5	58.7	56.1	0.026	0.035
Small Intestine	17	7.31	26.7	36	0.018	0.010
Thyroid	9.05	5.65	14.4	20.7	0.000	0.000
Testes	4.25	1.34	5.06	4.51	0.004	0.001
Adipose Perirenal ^b	11.6	13.1	9.27	6.43	0.055	0.062
Pancreas	7.16	3.5	10.2	12.6	0.002	0.001
Total	-	-	-	-	0.95	0.446

Disposition Summary – Percent of Dose Recovered

Sample	1b-1	1b-2	1b-3	1b-4	Mean	SD
Absorbed	-	-	-	-	-	-
Urine	17.9	13.0	19.8	24.6	18.8	4.79
Feces	0.859	1.71	2.17	3.2	1.98	0.975
CO ₂	0.158	0.128	0.232	0.241	0.19	0.055
VOC	2.007	1.968	2.25	2.574	2.197	0.353
Cage Rinse	5.89	10.2	7.97	6.39	7.61	1.92
Tissues	0.987	0.438	0.854	1.52	0.95	0.446
GI Tract Contents	0.087	0.247	0.329	1.05	0.429	0.428
Subtotal	27.9	27.7	33.6	39.6	32.2	8.97
Unabsorbed	-	-	-	-	-	-
Gauze	1.09	0.86	1.18	0.78	0.98	0.19
Appliance	4.67	4.6	3.51	4.72	4.38	0.58
Dose site skin rinse	0.924	3.18	1.18	1.96	1.81	1.01
Subtotal	6.68	8.64	5.87	7.46	7.16	1.18
Dose site	13.1	14.8	12.6	10.7	12.8	1.7
Total	47.67	51.13	52.08	57.74	52.15	4.17

^a Includes urine present in bladder at time of sacrifice.

^b Tissue weights for dispersed tissues were calculated based on body weight as follows: adipose 7.0%, muscle 40.4%, skin 19%, blood 7.4%, and plasma 4.3%.