

**Disposition of Radioactivity 72 Hours Following Dermal Administration of 15 mg/kg
[¹⁴C]Dimethylamine borane to Male Harlan Sprague Dawley Rats – Group 1a**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1a-1	1a-2	1a-3	1a-4	Mean	SD
Urine	0 to 4	0.413	0.703	0.856	0.475	0.612	0.205
Urine	4 to 8	N.C.	1.71	0.532	1.08	1.11	0.589
Urine	8 to 12	1.96	3.23	2.86	0.853	2.23	1.06
Urine	12 to 24	5.11	7.22	7.04	5.04	6.1	1.19
Urine	24 to 48	8.09	10	9.5	8.63	9.06	0.862
Urine	48 to 72 ^a	8.77	10.6	7.39	9.13	8.97	1.32
-	Subtotal	24.3	33.5	28.2	25.2	27.8	4.12
Feces	0 to 24	1.54	0.675	2.53	1.22	1.49	0.778
Feces	24 to 48	1.94	0.813	1.39	2.17	1.58	0.606
Feces	48 to 72	1.82	0.507	0.118	1.24	0.92	0.757
-	Subtotal	5.29	1.99	4.03	4.63	3.99	1.42
CO ₂	0 to 4	0.000	0.000	0.000	0.000	0.000	0.000
CO ₂	4 to 8	0.001	0.004	0.005	0.002	0.003	0.001
CO ₂	8 to 12	0.002	0.006	0.007	0.002	0.004	0.002
CO ₂	12 to 24	0.010	0.019	0.018	0.014	0.015	0.004
CO ₂	24 to 48	0.068	0.049	0.049	0.023	0.047	0.018
CO ₂	48 to 72	0.090	0.103	0.083	0.019	0.074	0.037
-	Subtotal	0.175	0.183	0.164	0.063	0.146	0.055
VOC-front	0 to 4	1.53	0.495	0.005	0.203	0.557	0.676
VOC-front	4 to 8	0.573	0.475	0.594	0.091	0.433	0.234
VOC-front	8 to 12	0.831	0.413	0.652	0.099	0.499	0.316
VOC-front	12 to 24	0.816	0.756	0.758	0.196	0.632	0.292
VOC-front	24 to 48	0.833	0.884	0.686	0.269	0.668	0.279
VOC-front	48 to 72	0.53	0.701	0.438	0.171	0.46	0.221
-	Subtotal	5.11	3.72	3.13	1.03	3.25	1.69
VOC- back	0 to 4	0.013	0.006	0.009	0.001	0.007	0.004
VOC- back	4 to 8	0.025	0.005	0.006	0.001	0.009	0.01
VOC- back	8 to 12	0.013	0.004	0.006	0.001	0.006	0.004
VOC- back	12 to 24	0.022	0.017	0.024	0.006	0.018	0.008
VOC- back	24 to 48	0.159	0.026	0.005	0.017	0.052	0.071
VOC- back	48 to 72	0.043	0.064	0.038	0.026	0.043	0.015
-	Subtotal	0.276	0.125	0.09	0.055	0.137	0.097
Cage Rinse	72	7.15	10.8	10.2	9.37	9.38	1.6
Total	-	42.30	50.32	45.81	40.35	44.70	4.38

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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	650	147	37.1	0.95	0.860	0.248
Bladder	1770	1790	107	75.9	0.005	0.005
Muscle (hind leg) ^b	45.1	10.6	2.6	0.32	0.127	0.039
Blood ^b	19	3.4	Unity	-	0.010	0.003
Plasma ^b	18.7	5.33	0.94	0.16	0.006	0.002
Spleen	44.8	13.1	2.16	0.44	0.001	0.001
Liver	44.6	12.3	2.57	0.96	0.009	0.003
Kidney	57	23.9	3.18	1.02	0.003	0.001
Brain	19	9.37	1.1	0.34	0.001	0.001
Heart	17.7	8.68	1.02	0.26	0.001	0.001
Lung	34	9.06	1.81	0.5	0.001	0.001
Stomach	259	188	9.55	6.08	0.011	0.007
Cecum	248	101	14.4	7.83	0.005	0.002
Large Intestine	212	56.8	12.4	5.23	0.008	0.002
Small Intestine	116	23	5.62	0.15	0.010	0.003
Thyroid	52.9	24.4	2.93	1.29	0.000	0.000
Testes	24.2	14.3	1.2	0.68	0.002	0.001
Adipose Perirenal ^b	10.2	N.A.	0.49	N.A.	0.005	N.A.
Pancreas	47.4	14.3	2.33	0.54	0.001	0.001
Total	-	-	-	-	1.06	0.291

Disposition Summary – Percent of Dose Recovered

Sample	1a-1	1a-2	1a-3	1a-4	Mean	SD
Absorbed	-	-	-	-	-	-
Urine	24.3	33.5	28.2	25.2	27.8	4.12
Feces	5.29	1.99	4.03	4.63	3.99	1.42
CO ₂	0.175	0.183	0.164	0.063	0.146	0.055
VOC	5.386	3.845	3.22	1.085	3.387	1.787
Cage Rinse	7.15	10.8	10.2	9.37	9.38	1.6
Tissues	0.911	1.43	1.13	0.759	1.06	0.291
GI Tract Contents	0.974	0.111	0.037	0.176	0.325	0.437
Subtotal	44.19	51.86	46.98	41.28	46.09	9.71
Unabsorbed	-	-	-	-	-	-
Gauze	0.27	0.31	0.24	0.24	0.265	0.033
Appliance	7.09	5.28	5.87	3.83	5.52	1.36
Dose site skin rinse	1.09	0.261	0.909	0.281	0.635	0.427
Subtotal	8.45	5.85	7.02	4.35	6.42	1.74
Dose site	4.6	6.07	3.64	4.58	4.72	1.00
Total	57.24	63.78	57.64	50.21	57.22	5.55

^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%.

N.C. = not collected.

N.A. = not applicable.