

**Disposition of Radioactivity 72 Hours Following Oral Administration of 1.5 mg/kg
[¹⁴C]Dimethylamine borane to Male Harlan Sprague Dawley Rats – Group 3**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	3-01	3-02	3-03	3-04	Mean	SD
Urine	0 to 4	47.4	3.99	41.6	0	23.2	24.7
Urine	4 to 8	21.6	53.4	27.9	71.8	43.7	23.3
Urine	8 to 12	11.1	20.4	9.7	9.7	12.7	5.16
Urine	12 to 24	10.3	6.38	7.52	11	8.8	2.2
Urine	24 to 48	2.7	3.68	4.87	1.89	3.29	1.29
Urine	48 to 72 ^a	0.31	2.29	1.09	0.55	1.06	0.88
-	Subtotal	93.4	90.1	92.7	94.9	92.8	2.01
Feces	0 to 24	0.35	0.29	0.33	0.35	0.33	0.03
Feces	24 to 48	0.04	0.04	0.06	0.04	0.05	0.01
Feces	48 to 72	0.03	0.02	0.02	0.01	0.02	0.01
-	Subtotal	0.42	0.35	0.41	0.4	0.4	0.03
CO ₂	0 to 4	0.15	0.16	0.17	0.19	0.17	0.02
CO ₂	4 to 8	0.08	0.08	0.09	0.11	0.09	0.01
CO ₂	8 to 12	0.03	0.03	0.03	0.04	0.03	0.01
CO ₂	12 to 24	0.02	0.02	0.02	0.02	0.02	0
CO ₂	24 to 48	0.02	0.04	0.03	0.01	0.03	0.01
CO ₂	48 to 72	0.01	0.01	0.01	0.02	0.01	0.01
-	Subtotal	0.31	0.34	0.35	0.39	0.35	0.03
Exhaled VOC	0 to 4	0	0.01	0.05	0	0.02	0.02
Exhaled VOC	4 to 8	0.02	0.06	0.14	0.01	0.06	0.06
Exhaled VOC	8 to 12	0.05	0.13	0.11	0.02	0.08	0.05
Exhaled VOC	12 to 24	0.08	0.26	0.18	0.04	0.14	0.1
Exhaled VOC	24 to 48	0.05	0.32	0.19	0.06	0.16	0.13
Exhaled VOC	48 to 72	0.02	0.07	0.03	0.06	0.05	0.02
-	Subtotal	0.22	0.85	0.7	0.19	0.49	0.34
Cage Rinse	72	0.2	1.85	0.62	0.27	0.74	0.77
-	Subtotal	0.2	1.85	0.62	0.27	0.74	0.77
Total	-	94.6	93.5	94.8	96.2	94.8	1.11

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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
Adipose Perirenal ^b	2.17	0.54	0.87	0.16	0.01	0.002
Bladder	5.8	1.18	2.33	0.36	0	0
Blood ^b	2.51	0.51	Unity	-	0.012	0.003
Brain	2.71	0.42	1.1	0.2	0.001	0
Cecum	2.75	0.77	1.09	0.13	0	0
Heart	4.76	0.63	1.94	0.34	0.001	0.001
Kidney	10.3	0.82	4.18	0.64	0.005	0.001
Large Intestine	6.44	0.82	2.62	0.45	0.003	0.001
Liver	10.7	0.46	4.43	1.17	0.025	0.001
Lung	8.56	0.13	3.52	0.76	0.004	0.001
Muscle (hind leg) ^b	3.5	0.27	1.43	0.26	0.092	0.007
Pancreas	5.57	0.7	2.31	0.65	0.002	0.001
Plasma ^b	3.52	0.23	1.44	0.24	0.01	0.001
Skin (abdominal) ^b	7.59	3.54	2.94	1.06	0.094	0.045
Small Intestine	6.23	0.41	2.56	0.5	0.005	0.001
Spleen	7.26	0.57	2.97	0.52	0.001	0
Stomach	5.29	0.73	2.14	0.28	0.002	0.001
Testes	4.54	0.48	1.85	0.29	0.004	0.001
Thyroid	5.74	0.43	2.37	0.58	0	0
Total	-	-	-	-	0.269	0.055

Disposition Summary – Percent of Dose Recovered

Sample	3-01	3-02	3-03	3-04	Mean	SD
Urine	93.4	90.1	92.7	94.9	92.8	2.01
Feces	0.42	0.35	0.41	0.4	0.4	0.03
CO ₂	0.31	0.34	0.35	0.39	0.35	0.03
Exhaled VOC	0.22	0.85	0.7	0.19	0.49	0.34
Cage Rinse	0.2	1.85	0.62	0.27	0.74	0.77
Tissues	0.216	0.229	0.302	0.33	0.269	0.055
GI Tract	0.003	0.005	0.004	0.005	0.004	0.001
Total	94.8	93.7	95.1	96.5	95.0	1.1

^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%.