

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of
20 mg/kg [¹⁴C] N-Butylbenzenesulfonamide to Male Harlan Sprague Dawley Rats – Group 5**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	5_01	5_02	5_03	5_04	Mean	SD
Urine	0 to 8	20.20	31.10	23.70	20.40	23.90	5.09
Urine	8 to 24	26.00	23.00	25.70	25.50	25.10	1.38
Urine	24 to 48	6.87	6.12	8.17	6.35	6.88	0.92
Urine	48 to 72 ^a	2.78	3.03	3.03	2.64	2.87	0.19
-	Subtotal	55.90	63.30	60.60	54.90	58.70	3.96
Cage Rinse	0 to 8	20.90	11.70	11.50	16.90	15.30	4.52
Cage Rinse	8 to 24	2.68	4.10	3.37	3.40	3.39	0.58
Cage Rinse	24 to 48	1.05	1.11	2.00	1.14	1.33	0.45
Cage Rinse	48 to 72	0.94	0.89	1.60	1.52	1.24	0.37
-	Subtotal	25.60	17.80	18.50	23.00	21.20	3.72
Urine + Cage Rinse	Subtotal	81.50	81.10	79.10	77.90	79.90	1.70
Feces	0 to 24	10.90	11.30	10.80	11.70	11.20	0.41
Feces	24 to 48	3.01	2.46	2.85	3.14	2.87	0.30
Feces	48 to 72	0.96	0.90	1.13	1.67	1.17	0.35
-	Subtotal	14.90	14.70	14.80	16.50	15.20	0.85
Total	-	96.30	95.70	93.90	94.40	95.10	1.11

Distribution in Tissues (72 h)

Tissue ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	416	119	0.081	0.021	0.152	0.042
Bladder	1110	599	0.214	0.103	0.003	0.001
Muscle (hind leg)	572	76.3	0.112	0.007	1.19	0.13
Skin (abdominal)	629	59	0.123	0.005	0.622	0.049
Blood	5120	396	1	0	1.97	0.111
Plasma	302	44	0.059	0.005	0.068	0.009
Spleen	2030	292	0.401	0.08	0.028	0.006
Liver	1650	248	0.32	0.025	0.32	0.036
Kidney	3340	555	0.651	0.086	0.142	0.027
Brain	1200	157	0.235	0.023	0.048	0.005
Heart	1700	234	0.331	0.026	0.038	0.007
Lung	1850	365	0.36	0.045	0.05	0.01
Stomach	1380	171	0.269	0.018	0.044	0.007
Cecum	2220	452	0.432	0.069	0.032	0.007
Large Intestine	2450	734	0.484	0.163	0.09	0.024
Small Intestine	1090	111	0.213	0.009	0.104	0.01
Thyroid	1300	383	0.25	0.057	0	0.001
Testes	527	72.4	0.103	0.009	0.04	0.004
Pancreas	987	209	0.193	0.037	0.025	0.006
Total	-	-	-	-	4.97	0.388

Disposition Summary – Percent of Dose Recovered

Sample	5_01	5_02	5_03	5_04	Mean	SD
Urine ^{a,c}	81.50	81.10	79.10	77.90	79.90	1.70
Feces	14.90	14.70	14.80	16.50	15.20	0.85
GI Tract Contents	0.43	0.37	0.63	0.46	0.47	0.11
GI Tract Rinse	0.04	0.02	0.03	0.05	0.04	0.01
Tissues	4.57	4.78	5.47	5.05	4.97	0.39
Total	101.44	100.97	100.03	99.96	100.58	0.73

^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% ILSI (1994). Physiological Parameter Values for PBPK Models. *International Life Sciences Institute*.

^c Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.