

**Distribution of Radioactivity 72 Hours Following Gavage Administration of
200 mg/kg [¹⁴C] *N*-Butylbenzenesulfonamide to Male Harlan Sprague Dawley Rats – Group 1**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1-01	1-02	1-03	1-04	Mean	SD
Urine	0 to 8	17.78	20.14	9.71	13.99	15.41	4.56
Urine	8 to 24	36.44	37.38	28.38	28.86	32.77	4.81
Urine	24 to 48	13.97	12.01	14.94	15.64	14.14	1.58
Urine	48 to 72 ^a	5.8	4.19	5.61	8.12	5.93	1.63
Cage Rinse	0 to 72	5.03	3.61	14.61	8.33	7.9	4.89
-	Subtotal	79.03	77.30	73.22	74.95	76.13	2.56
Feces	0 to 24	5.05	1.30	3.75	7.87	4.49	2.74
Feces	24 to 48	5.24	4.99	4.63	5.47	5.08	0.36
Feces	48 to 72	1.85	1.84	1.42	1.21	1.58	0.32
-	Subtotal	12.14	8.13	9.8	14.55	11.16	2.82
Total	-	91.17	85.43	83.02	89.50	87.29	3.75

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	7220	5540	0.342	0.219	0.243	0.182
Bladder	28800	8550	1.47	0.583	0.006	0.002
Muscle (hind leg)	10100	2700	0.51	0.148	1.970	0.570
Skin (abdominal)	11600	2930	0.571	0.098	1.070	0.266
Blood	20100	2350	Unity	-	0.722	0.081
Plasma	10500	1950	0.518	0.047	0.218	0.039
Spleen	12200	1600	0.608	0.069	0.014	0.002
Liver	18900	3660	0.935	0.086	0.339	0.040
Kidney	36000	5280	1.79	0.072	0.128	0.026
Brain	11900	1850	0.589	0.036	0.043	0.006
Heart	13300	2140	0.659	0.032	0.025	0.006
Lung	14200	2980	0.702	0.068	0.042	0.008
Stomach	13600	2780	0.669	0.065	0.038	0.004
Cecum	19400	5110	0.956	0.148	0.023	0.004
Large Intestine	15300	2840	0.758	0.068	0.044	0.005
Small Intestine	20200	3140	0.999	0.071	0.133	0.002
Thyroid	18800	3760	0.947	0.228	0.000	0.001
Testes	10800	1990	0.533	0.043	0.075	0.010
Pancreas	13000	2530	0.644	0.053	0.027	0.007
Total	-	-	-	-	5.15	0.792

Disposition Summary – Percent of Dose Recovered

Sample	1-01	1-02	1-03	1-04	Mean	SD
Urine ^{a,c}	79.03	77.30	73.22	74.95	76.13	2.56
Feces	12.14	8.13	9.80	14.55	11.16	2.82
GI Tract Contents	0.85	0.40	0.70	0.41	0.59	0.223
GI Tract Rinse	0.03	0.04	0.06	0.03	0.04	0.013
Tissues	6.13	4.22	5.29	4.96	5.15	0.792
Total	98.14	90.09	89.07	94.95	93.06	4.25

^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.