

**Distribution of Radioactivity 72 Hours Following Gavage Administration of
20 mg/kg [¹⁴C]N-Butylbenzenesulfonamide to Male Harlan Sprague Dawley Rats – Group 2**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	2_01	2_02	2_03	2_04	Mean	SD
Urine	0 to 8	16.60	26.00	16.40	20.90	20.00	4.52
Urine	8 to 24	31.20	23.30	29.00	27.70	27.80	3.33
Urine	24 to 48	10.40	7.62	8.55	7.66	8.56	1.30
Urine	48 to 72 ^a	2.72	2.29	2.37	2.48	2.47	0.19
-	Subtotal	60.90	59.20	56.30	58.70	58.80	1.90
Cage Rinse	0 to 8	8.12	8.83	11.00	11.60	9.89	1.67
Cage Rinse	8 to 24	3.57	4.48	3.87	3.55	3.87	0.43
Cage Rinse	24 to 48	1.19	1.57	1.04	0.74	1.14	0.35
Cage Rinse	48 to 72	1.13	1.50	1.23	0.54	1.10	0.41
-	Subtotal	14.00	16.40	17.10	16.40	16.00	1.36
Urine + Cage Rinse	Subtotal	74.90	75.60	73.40	75.10	74.75	0.95
Feces	0 to 24	9.37	9.64	13.00	10.60	10.70	1.65
Feces	24 to 48	4.57	3.74	2.56	2.41	3.32	1.02
Feces	48 to 72	1.15	1.03	1.06	1.00	1.06	0.06
-	Subtotal	15.10	14.40	16.60	14.00	15.00	1.14
Total	-	90.00	90.00	90.10	89.20	89.80	0.42

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	445	32.6	0.089	0.005	0.16	0.009
Bladder	1160	94	0.232	0.033	0.002	0.001
Muscle (hind leg)	575	117	0.113	0.012	1.17	0.168
Skin (abdominal)	631	119	0.124	0.012	0.613	0.084
Blood	5030	508	1	0	1.91	0.091
Plasma	302	59	0.060	0.007	0.066	0.009
Spleen	1840	113	0.367	0.027	0.024	0.003
Liver	1670	241	0.331	0.023	0.35	0.058
Kidney	3310	546	0.654	0.062	0.126	0.016
Brain	1210	182	0.239	0.022	0.044	0.004
Heart	1700	255	0.336	0.019	0.032	0.003
Lung	2000	181	0.398	0.021	0.052	0.008
Stomach	1330	135	0.263	0.01	0.041	0.001
Cecum	3200	942	0.628	0.124	0.048	0.022
Large Intestine	1810	395	0.36	0.075	0.067	0.018
Small Intestine	1130	237	0.224	0.034	0.1	0.009
Thyroid	1110	95.7	0.221	0.013	0	0.001
Testes	503	84.2	0.1	0.009	0.037	0.005
Pancreas	1050	184	0.21	0.033	0.027	0.005
Total	-	-	-	-	4.87	0.428

Disposition Summary – Percent of Dose Recovered

Sample	2_01	2_02	2_03	2_04	Mean	SD
Urine ^{a,c}	74.90	75.60	73.40	75.10	74.75	0.95
Feces	15.10	14.40	16.60	14.00	15.00	1.14
GI Tract Contents	0.67	0.59	0.47	0.64	0.59	0.09
GI Tract Rinse	0.04	0.02	0.01	0.05	0.03	0.02
Tissues	4.99	5.34	4.31	4.84	4.87	0.43
Total	95.70	95.95	94.79	94.63	95.27	0.66

^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.