

**Distribution of Radioactivity 72 Hours Following Gavage Administration of
2 mg/kg [¹⁴C] N-Butylbenzenesulfonamide 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 8	16.07	22.59	26	23.51	22.04	4.23
Urine	8 to 24	31.36	35.32	27.9	25.21	29.95	4.38
Urine	24 to 48	12.64	8.48	10.19	10.5	10.45	1.71
Urine	48 to 72 ^a	2.96	3.22	2.83	3.79	3.2	0.43
Cage Rinse	0 to 72	6.31	2.97	2.74	6.21	4.56	1.97
-	Subtotal	69.37	72.56	69.67	69.19	70.20	1.59
Feces	0 to 24	7.61	7.89	10.7	4.54	7.69	2.52
Feces	24 to 48	4.45	4.18	2.6	5.09	4.08	1.06
Feces	48 to 72	0.89	0.66	0.65	1.26	0.87	0.29
-	Subtotal	12.95	12.73	13.95	10.89	12.63	1.28
Total	-	82.32	85.29	83.62	80.08	82.83	2.19

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	85.6	21.6	0.071	0.023	0.252	0.073
Bladder	285	64.8	0.236	0.073	0.005	0.001
Muscle (hind leg)	88.6	21.1	0.073	0.022	1.490	0.378
Skin (abdominal)	84.1	28.8	0.069	0.025	0.668	0.226
Blood	1230	92.9	Unity	-	3.800	0.230
Plasma	45	1.91	0.037	0.002	0.081	0.003
Spleen	360	55.4	0.293	0.038	0.038	0.007
Liver	276	47.5	0.224	0.025	0.425	0.057
Kidney	547	30.9	0.446	0.021	0.177	0.013
Brain	208	12.8	0.17	0.015	0.063	0.005
Heart	320	29.7	0.26	0.012	0.052	0.005
Lung	475	77.9	0.388	0.064	0.122	0.025
Stomach	266	17.6	0.217	0.009	0.068	0.010
Cecum	567	114	0.46	0.079	0.057	0.016
Large Intestine	438	134	0.363	0.136	0.110	0.022
Small Intestine	193	28.1	0.156	0.015	0.118	0.022
Thyroid	225	55.7	0.183	0.044	0.001	0.001
Testes	75	13.9	0.061	0.009	0.045	0.007
Pancreas	187	46.7	0.154	0.049	0.040	0.012
Total	-	-	-	-	7.60	0.663

Disposition Summary – Percent of Dose Recovered

Sample	3-01	3-02	3-03	3-04	Mean	SD
Urine ^{a,c}	69.37	72.56	69.67	69.19	70.20	1.59
Feces	12.95	12.73	13.95	10.89	12.63	1.28
GI Tract Contents	0.63	0.70	0.62	0.70	0.66	0.042
GI Tract Rinse	0.08	0.04	0.06	0.06	0.06	0.017
Tissues	7.82	6.61	7.98	7.98	7.60	0.663
Total	90.90	92.61	92.23	88.82	91.14	1.71

^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.