

**Distribution of Radioactivity 24 Hours Following Gavage Administration of
20 mg/kg [¹⁴C] *N*-Butylbenzenesulfonamide to Male Harlan Sprague Dawley Rats – Group 4**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	4_01	4_02	4_03	4_04	Mean	SD
Urine	0 to 8	9.81	24.0	20.3	19.2	18.3	6.0
Urine	8 to 24 ^a	35.3	19.8	25.0	21.6	25.4	6.9
-	Subtotal	45.1	43.8	45.3	40.8	43.8	2.1
Cage Rinse	0 to 8	10.2	5.64	9.73	12.1	9.42	2.72
Cage Rinse	8 to 24	4.11	2.42	2.73	4.87	3.53	1.16
-	Subtotal	14.3	8.06	12.5	17.0	13.0	3.8
Urine + Cage Rinse	Subtotal	59.4	51.9	57.8	57.8	56.7	3.3
Feces	0 to 24	11.5	16.4	15.7	13.7	14.3	2.2
Total	-	70.9	68.3	73.5	71.5	71.0	2.2

Distribution in Tissues (24 h)

Tissues ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	1290	355	0.16	0.04	0.46	0.13
Bladder	7560	1760	0.93	0.27	0.02	0.01
Muscle (hind leg)	2160	313	0.26	0.02	4.42	0.60
Skin (abdominal)	1940	393	0.24	0.03	1.88	0.36
Blood	8210	681	1.00	0.00	3.10	0.23
Plasma	1900	267	0.23	0.02	0.42	0.06
Spleen	4540	309	0.55	0.01	0.06	0.01
Liver	4820	698	0.59	0.05	1.13	0.09
Kidney	8260	1070	1.01	0.11	0.33	0.04
Brain	3170	245	0.39	0.02	0.12	0.01
Heart	3880	420	0.47	0.02	0.08	0.01
Lung	4030	485	0.49	0.03	0.13	0.02
Stomach	4140	550	0.51	0.07	0.12	0.01
Cecum	14200	6000	1.71	0.64	0.20	0.09
Large Intestine	7630	1810	0.92	0.16	0.24	0.06
Small Intestine	9980	1420	1.21	0.08	0.91	0.10
Thyroid	3100	234	0.38	0.03	<0.005	0.00
Testes	2020	336	0.25	0.02	0.14	0.02
Pancreas	3040	672	0.37	0.06	0.09	0.02
Total	-	-	-	-	13.8	1.6

Disposition Summary – Percent of Dose Recovered

Sample	4_01	4_02	4_03	4_04	Mean	SD
Urine ^{a,c}	59.4	51.9	57.8	57.8	56.7	3.3
Feces	11.5	16.4	15.7	13.7	14.3	2.2
Tissues	12.4	15.6	12.6	14.7	13.8	1.6
GI Tract Contents	5.00	4.90	6.42	5.20	5.38	0.70
Total	88.3	88.8	92.5	91.4	90.2	2.0

^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.