

Distribution of Radioactivity 72 Hours Following Intravenous Administration of 20 mg/kg [14C]N-Butylbenzenesulfonamide to Female Harlan Sprague Dawley Rats – Group 7

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	7_01	7_02	7_03	7_04	Mean	SD
Urine	0 to 8	24.6	30.4	26.7	22.1	26.0	3.5
Urine	8 to 24	31.8	16.2	18.3	13.1	19.8	8.3
Urine	24 to 48	5.93	4.04	3.56	4.89	4.60	1.04
Urine	48 to 72 ^a	1.49	1.46	1.32	1.66	1.48	0.14
-	Subtotal	63.8	52.1	49.9	41.8	51.9	9.1
Cage Rinse	0 to 8	10.9	17.4	21.9	24.2	18.6	5.9
Cage Rinse	8 to 24	3.75	4.86	2.93	9.27	5.20	2.82
Cage Rinse	24 to 48	0.73	0.50	0.80	0.66	0.67	0.13
Cage Rinse	48 to 72	0.27	0.51	0.49	0.55	0.46	0.13
-	Subtotal	15.7	23.3	26.1	34.7	25.0	7.9
Urine + Cage Rinse	Subtotal	79.5	75.4	76.0	76.5	76.9	1.8
Feces	0 to 24	4.54	11.3	10.4	8.48	8.68	3.00
Feces	24 to 48	2.28	3.16	1.49	1.85	2.20	0.72
Feces	48 to 72	0.18	0.29	0.42	1.30	0.55	0.51
-	Subtotal	7.00	14.8	12.3	11.6	11.4	3.3
Total	-	86.5	90.2	88.3	88.1	88.3	1.5

Distribution in Tissues (72 h)

Tissues ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	160	40	0.05	0.01	0.06	0.02
Bladder	555	126	0.17	0.02	<0.005	-
Muscle (hind leg)	299	32	0.09	0.01	0.62	0.07
Skin (abdominal)	302	33	0.09	0.01	0.30	0.04
Blood	3300	337	1.00	0.00	1.27	0.14
Plasma	249	27	0.08	0.01	0.06	0.01
Spleen	1050	111	0.32	0.02	0.02	0.01
Liver	928	78	0.28	0.02	0.21	0.02
Kidney	2310	190	0.70	0.02	0.09	<0.005
Brain	849	109	0.26	0.01	0.04	<0.005
Heart	1030	156	0.31	0.02	0.02	<0.005
Lung	1140	88	0.35	0.03	0.04	<0.005
Stomach	915	87	0.28	0.03	0.03	0.004
Cecum	2580	447	0.78	0.12	0.04	0.004
Large Intestine	1490	448	0.45	0.12	0.05	0.02
Small Intestine	800	148	0.24	0.03	0.07	0.01
Thyroid	779	163	0.24	0.04	<0.005	-
Ovaries	560	77	0.17	0.02	<0.005	-
Pancreas	700	72	0.21	0.02	0.02	<0.005
Uterus with Fallopian Tubes	597	73	0.18	0.02	0.01	0.00
Total	-	-	-	-	2.94	0.30

Disposition Summary – Percent of Dose Recovered

Sample	7_01	7_02	7_03	7_04	Mean	SD
Urine ^{a,c}	79.5	75.4	76.0	76.5	76.9	1.8
Feces	7.00	14.8	12.3	11.6	11.4	3.3
Tissues	2.70	3.16	2.66	3.22	2.94	0.30
GI Tract Contents	0.46	0.41	0.34	0.42	0.41	0.05
Total	89.7	93.8	91.3	91.7	91.6	1.7

^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.