

**Distribution of Radioactivity 72 Hours Following Gavage Administration of  
20 mg/kg [<sup>14</sup>C]N-Butylbenzenesulfonamide to Female Harlan Sprague Dawley Rats – Group 6**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	6_01	6_02	6_03	6_04	Mean	SD
Urine	0 to 8	28.00	48.10	28.80	25.20	32.50	10.50
Urine	8 to 24	24.50	15.00	28.80	34.20	25.60	8.12
Urine	24 to 48	4.77	2.39	5.21	3.34	3.93	1.30
Urine	48 to 72 <sup>a</sup>	1.38	1.20	1.50	1.19	1.32	0.15
-	<b>Subtotal</b>	<b>58.70</b>	<b>66.70</b>	<b>64.30</b>	<b>63.90</b>	<b>63.40</b>	<b>3.37</b>
Cage Rinse	0 to 8	17.30	16.70	12.30	12.10	14.60	2.78
Cage Rinse	8 to 24	4.58	1.91	3.49	3.04	3.26	1.11
Cage Rinse	24 to 48	0.82	0.66	0.71	0.81	0.75	0.08
Cage Rinse	48 to 72	1.41	0.53	0.36	0.70	0.75	0.46
-	<b>Subtotal</b>	<b>24.10</b>	<b>19.80</b>	<b>16.90</b>	<b>16.70</b>	<b>19.40</b>	<b>3.45</b>
<b>Urine + Cage Rinse</b>	<b>Subtotal</b>	<b>82.80</b>	<b>86.50</b>	<b>81.20</b>	<b>80.60</b>	<b>82.78</b>	<b>2.65</b>
Feces	0 to 24	9.06	2.56	11.60	13.70	9.23	4.83
Feces	24 to 48	3.31	7.90	2.69	1.29	3.80	2.86
Feces	48 to 72	0.56	0.25	0.49	0.57	0.47	0.15
-	<b>Subtotal</b>	<b>12.90</b>	<b>10.70</b>	<b>14.80</b>	<b>15.60</b>	<b>13.50</b>	<b>2.18</b>
<b>Total</b>	-	<b>95.70</b>	<b>97.20</b>	<b>95.90</b>	<b>96.10</b>	<b>96.20</b>	<b>0.67</b>

Distribution in Tissues (72 h)

Tissue <sup>b</sup>	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	212	75.1	0.057	0.02	0.073	0.025
Bladder	411	131	0.109	0.032	0.001	0
Muscle (hind leg)	281	43.6	0.075	0.01	0.559	0.081
Skin (abdominal)	297	24.1	0.079	0.005	0.281	0.027
Blood	3740	173	1	0	1.38	0.061
Plasma	143	25.6	0.038	0.006	0.031	0.005
Spleen	992	76.8	0.266	0.025	0.013	0.002
Liver	884	74.5	0.237	0.021	0.165	0.013
Kidney	1830	169	0.489	0.032	0.069	0.002
Brain	658	80	0.176	0.022	0.029	0.003
Heart	880	102	0.235	0.021	0.018	0.002
Lung	1160	143	0.309	0.033	0.035	0.006
Stomach	585	342	0.157	0.092	0.026	0.006
Cecum	1120	681	0.302	0.189	0.029	0.019
Large Intestine	882	529	0.24	0.152	0.051	0.024
Small Intestine	484	227	0.13	0.062	0.059	0.014
Thyroid	790	249	0.21	0.06	0	0
Ovaries	526	83.6	0.14	0.019	0.002	0.001
Pancreas	537	60.8	0.144	0.021	0.015	0.002
Uterus	576	138	0.153	0.032	0.007	0.002
<b>Total</b>	-	-	-	-	<b>2.84</b>	<b>0.126</b>

Disposition Summary – Percent of Dose Recovered

Sample	6_01	6_02	6_03	6_04	Mean	SD
Urine <sup>a,c</sup>	82.80	86.50	81.20	80.60	82.78	2.65
Feces	12.90	10.70	14.80	15.60	13.50	2.18
GI Tract Contents	0.55	0.31	0.34	0.24	0.36	0.13
GI Tract Rinse	0.02	0.02	0.01	0.03	0.02	0.01
Tissues	2.88	2.97	2.85	2.67	2.84	0.13
<b>Total</b>	<b>99.15</b>	<b>100.50</b>	<b>99.20</b>	<b>99.14</b>	<b>99.50</b>	<b>0.67</b>

<sup>a</sup> Includes urine present in bladder at time of sacrifice.

<sup>b</sup> 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*.

<sup>c</sup> Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.