

**Distribution of Radioactivity 72 Hours Following Gavage Administration of
50 mg/kg [¹⁴C]Bisphenol S to Male Harlan Sprague Dawley Rats – Group 1**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1_01	1_02	1_03	1_04	Mean	SD
Urine	0 to 8	5.29	17.1	4.2	9.28	8.97	5.84
Urine	8 to 24	28.7	28.9	19	24.9	25.4	4.63
Urine	24 to 48	24.6	22.1	26.3	18.8	23	3.26
Urine	48 to 72 ^a	3.73	0.59	4.18	2.56	2.77	1.60
-	Subtotal	62.3	68.7	53.7	55.5	60.1	6.85
Cage Rinse	0 to 8	2.74	4.58	5.48	2.45	3.81	1.46
Cage Rinse	8 to 24	5.34	4.95	3.98	4.43	4.68	0.60
Cage Rinse	24 to 48	2.52	2.07	3.5	1.96	2.51	0.70
Cage Rinse	48 to 72	0.88	0.78	1.89	1.05	1.15	0.51
-	Subtotal	11.5	12.4	14.9	9.89	12.2	2.07
Urine + Cage Rinse	Subtotal	73.8	81.1	68.5	65.4	72.2	6.84
Feces	0 to 24	9.68	2.40	4.63	14.8	7.88	5.53
Feces	24 to 48	3.44	6.29	9.53	4.73	6.00	2.63
Feces	48 to 72	2.88	1.18	3.45	2.56	2.52	0.97
-	Subtotal	16.0	9.87	17.6	22.1	16.4	5.05
Total	-	89.8	90.9	86.1	87.5	88.6	2.17

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	BLOQ ^c	-	BLOQ	-	0.009	0.015
Bladder	846	1030	12.9	10.7	0.001	0.002
Blood	BLOQ	-	1	-	<0.005	-
Brain	2.62	1	0.041	0.033	<0.000	-
Cecum	3240	2530	63.1	24.7	0.016	0.012
Heart	21.6	10.1	0.509	0.103	<0.000	-
Kidney	211	111	4.82	0.674	0.003	0.002
Large Intestine	1000	823	20.6	4.13	0.012	0.011
Liver	220	120	4.85	1.19	0.015	0.008
Lung	40.9	24.4	0.89	0.047	<0.000	-
Muscle	8.83	2.95	0.232	0.094	0.007	0.002
Pancreas	78.6	99.2	1.3	0.932	0.001	0.001
Plasma	89.9	51.4	1.98	0.216	0.008	0.005
Skin	33.6	12.8	0.862	0.329	0.013	0.005
Small Intestine	2750	2490	51.6	15.8	0.088	0.086
Spleen	23.5	22.8	0.473	0.164	<0.000	-
Stomach	358	199	7.72	3.11	0.004	0.002
Testes	12.8	7.59	0.279	0.015	0	0.001
Thyroid	43.6	18.7	1.66	2.04	<0.000	-
Total	-	-	-	-	0.183	0.15

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Disposition Summary – Percent of Dose Recovered

Sample	1_01	1_02	1_03	1_04	Mean	SD
Urine ^{a, d}	73.8	81.1	68.5	65.4	72.2	6.84
Feces	16.0	9.9	17.6	22.1	16.4	5.05
Tissues	0.15	0.04	0.39	0.14	0.18	0.15
GI Tract Contents	1.07	0.15	1.03	0.51	0.69	0.44
GI Tract Rinse	0.04	0.00	0.15	0.01	0.05	0.07
Total	91.1	91.1	87.7	88.2	89.5	1.83

^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%, and blood 7.4%.

^c BLOQ: Concentration was below the limit of detection (aliquot DPM < 3 x background DPM) for 3 or more rats; when concentration is BLOQ, TBR is set to BLOQ.

^d Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.