

**Distribution of Radioactivity 72 Hours Following Gavage Administration of
150 mg/kg [¹⁴C]Bisphenol S to Male Harlan Sprague Dawley Rats – Group 2**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	2_01	2_02	2_03	2_04	Mean	SD
Urine	0 to 8	5.85	6.85	8.82	4.86	6.60	1.69
Urine	8 to 24	22.4	19.4	25.0	20.0	21.7	2.55
Urine	24 to 48	21.5	14.4	18.1	17.3	17.8	2.92
Urine	48 to 72 ^a	6.20	5.99	3.45	9.73	6.34	2.58
-	Subtotal	56.0	46.6	55.4	51.9	52.5	4.28
Cage Rinse	0 to 8	5.91	5.13	3.20	4.42	4.67	1.15
Cage Rinse	8 to 24	3.07	5.95	4.94	4.10	4.52	1.22
Cage Rinse	24 to 48	2.12	4.84	2.22	6.45	3.91	2.11
Cage Rinse	48 to 72	1.79	2.31	1.03	1.71	1.71	0.53
-	Subtotal	12.9	18.2	11.4	16.7	14.8	3.19
Urine + Cage Rinse	Subtotal	68.8	64.9	66.8	68.6	67.3	1.84
Feces	0 to 24	6.44	14.20	16.40	4.70	10.4	5.73
Feces	24 to 48	11.6	4.41	9.33	6.76	8.02	3.12
Feces	48 to 72	2.51	3.18	1.68	7.14	3.63	2.42
-	Subtotal	20.6	21.8	27.4	18.6	22.1	3.78
Total	-	89.4	86.7	94.2	87.2	89.3	3.43

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	215	106	1.1	0.835	0.011	0.005
Bladder	2760	3240	8.42	6.3	0.001	0.001
Blood	BLOQ ^c	-	1	-	0.016	0.015
Brain	17.3	12.3	0.069	0.021	<0.000	-
Cecum	44300	42900	124	63.9	0.065	0.06
Heart	153	133	0.513	0.071	0.001	0.001
Kidney	1190	894	4.51	1.09	0.006	0.004
Large Intestine	12200	10000	40.3	21.9	0.048	0.038
Liver	1680	1450	5.5	0.964	0.038	0.031
Lung	312	231	1.17	0.482	0.001	0.001
Muscle	60	56.3	0.182	0.028	0.017	0.016
Pancreas	1180	998	3.96	2.32	0.004	0.003
Plasma	637	570	2.02	0.439	0.019	0.017
Skin	246	182	0.943	0.305	0.032	0.024
Small Intestine	22400	19700	68.9	36	0.22	0.175
Spleen	159	131	0.538	0.091	<0.000	-
Stomach	1270	1170	4.59	1.18	0.005	0.004
Testes	84.9	71.8	0.298	0.077	0.001	0.001
Thyroid	BLOQ	-	BLOQ	-	<0.000	-
Total	-	-	-	-	0.483	0.39

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Disposition Summary – Percent of Dose Recovered

Sample	2_01	2_02	2_03	2_04	Mean	SD
Urine ^{a, d}	68.8	64.9	66.8	68.6	67.3	1.84
Feces	20.6	21.8	27.4	18.6	22.1	3.78
Tissues	0.26	0.73	0.06	0.89	0.48	0.39
GI Tract Contents	0.53	3.54	0.12	3.84	2.01	1.95
GI Tract Rinse	0.22	0.06	0.00	0.08	0.09	0.09
Total	90.4	91.0	94.3	92.0	91.9	1.74

^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.