

**Distribution of Radioactivity 72 Hours Following Gavage Administration of [¹⁴C]Bisphenol S
(500 mg/kg) to Male Harlan Sprague Dawley Rats – Group 3**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	3_01	3_02	3_03	3_04	Mean	SD
Urine	0 to 8	5.02	5.58	3.36	3.21	4.29	1.19
Urine	8 to 24	3.95	13.7	17.0	16.4	12.8	6.05
Urine	24 to 48	13.3	18.9	14.5	14.0	15.2	2.53
Urine	48 to 72 ^a	8.68	7.8	9.31	10.5	9.07	1.14
-	Subtotal	31.0	46.0	44.2	44.1	41.3	6.96
Cage Rinse	0 to 8	0.9	3.51	1.52	1.02	1.74	1.21
Cage Rinse	8 to 24	1.11	1.14	2.24	4.36	2.21	1.53
Cage Rinse	24 to 48	1.17	0.99	1.58	1.19	1.23	0.25
Cage Rinse	48 to 72	1.73	0.89	2.04	2.45	1.78	0.66
-	Subtotal	4.91	6.53	7.38	9.02	6.96	1.71
Urine + Cage Rinse	Subtotal	35.9	52.5	51.6	53.1	48.3	8.29
Feces	0 to 24	30.8	9.92	5.07	4.2	12.5	12.5
Feces	24 to 48	6.55	10.8	17.2	13.7	12.1	4.51
Feces	48 to 72	5.92	7.77	4.29	5.51	5.87	1.44
-	Subtotal	43.3	28.5	26.6	23.4	30.4	8.81
CO ₂	0 to 8	BLOD ^b	BLOD	BLOD	BLOD	-	-
CO ₂	8 to 24	BLOD	BLOD	BLOD	BLOD	-	-
CO ₂	24 to 48	BLOD	BLOD	BLOD	BLOD	-	-
CO ₂	48 to 72	BLOD	BLOD	BLOD	BLOD	-	-
-	Subtotal	BLOD	BLOD	BLOD	BLOD	-	-
VOC	0 to 8	BLOD	BLOD	BLOD	BLOD	-	-
VOC	8 to 24	BLOD	BLOD	BLOD	BLOD	-	-
VOC	24 to 48	BLOD	BLOD	BLOD	BLOD	-	-
VOC	48 to 72	BLOD	BLOD	BLOD	BLOD	-	-
-	Subtotal	BLOD	BLOD	BLOD	BLOD	-	-
Total	-	79.1	81.0	78.1	76.5	78.7	1.87

Distribution in Tissues (72 h)

Tissue ^c	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose	7630	8450	1	0.688	0.102	0.114
Bladder	47800	47500	6.53	5	0.003	0.003
Blood	6210	2810	1	0	0.087	0.042
Brain	281	75	0.048	0.011	<0.000	-
Cecum	545000	33000	97.7	29.9	0.378	0.095
Heart	2260	732	0.378	0.045	0.002	0.001
Kidney	12800	6560	2.03	0.152	0.021	0.012
Large Intestine	117000	56300	19.6	10.6	0.127	0.066
Liver	19800	4990	3.44	1.1	0.134	0.035
Lung	4690	1190	0.8	0.139	0.005	0.001
Muscle	999	374	0.164	0.019	0.075	0.03
Pancreas	19700	11900	3.05	0.933	0.018	0.011
Plasma	9800	2390	1.67	0.294	0.079	0.021
Skin	3600	1050	0.608	0.097	0.129	0.04
Small Intestine	454000	216000	81.5	51.6	1.17	0.448
Spleen	2230	859	0.385	0.185	0.001	0.001
Stomach	31500	30300	4.45	2.54	0.035	0.035
Testes	1490	426	0.251	0.034	0.004	0.001
Thyroid	2820	832	0.475	0.074	<0.000	-
Total	-	-	-	-	2.37	0.719

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Disposition Summary – Percent of Dose Recovered

Sample	3_01	3_02	3_03	3_04	Mean	SD
Urine ^{a, d}	35.9	52.5	51.6	53.1	48.3	8.29
Feces	43.3	28.5	26.6	23.4	30.4	8.81
CO ₂	0	0	0	0	0	0
VOC	0	0	0	0	0	0
Tissues	1.78	1.79	3.26	2.64	2.37	0.72
GI Tract Contents	5.67	6.61	8.55	9.01	7.46	1.58
GI Tract Rinse	0.54	0.41	0.77	0.72	0.61	0.17
Total	87.1	89.8	90.7	88.9	89.1	1.53

^a Includes urine present in bladder at time of sacrifice.

^b BLOD = below limit of detection. Aliquot DPMs were less than background DPM.

^c Tissue weights for dispersed tissues were calculated based on body weight as follows: adipose 7.0%, muscle 40.0%, skin 19%, and blood 7.4%.

^d Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.