

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of
50 mg/kg [¹⁴C]Bisphenol S to Male Harlan Spague Dawley Rats – Group 9**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	9_01	9_02	9_03	9_04	Mean	SD
Urine	0 to 8	15.2	13	11.3	9.83	12.3	2.31
Urine	8 to 24	17.8	13.8	20.9	16.1	17.2	2.99
Urine	24 to 48	13.5	12.3	9.26	8.3	10.8	2.45
Urine	48 to 72 ^a	0.92	2.14	1.64	2.28	1.75	0.62
-	Subtotal	47.4	41.2	43.1	36.5	42.1	4.52
Cage Rinse	0 to 8	3.15	2.33	2.43	3.8	2.93	0.69
Cage Rinse	8 to 24	2.73	1.87	2.42	3.78	2.7	0.8
Cage Rinse	24 to 48	1.38	1.29	0.54	1.15	1.09	0.38
Cage Rinse	48 to 72	0.5	0.6	0.33	1.07	0.63	0.32
-	Subtotal	7.76	6.09	5.72	9.8	7.34	1.86
Urine + Cage Rinse	Subtotal	55.2	47.3	48.8	46.3	49.4	3.98
Feces	0 to 24	10.8	1.15	14.6	16.7	10.8	6.89
Feces	24 to 48	15.8	29.1	15.8	13.2	18.5	7.19
Feces	48 to 72	0.98	4.68	2.50	4.82	3.25	1.85
-	Subtotal	27.6	34.9	32.9	34.7	32.5	3.43
Total	-	82.7	82.2	81.7	81.0	82.0	0.73

Distribution in Tissues (72 h)

Tissue ^b	ng-eq/g Mean ^c	ng-eq/g SD	TBR Mean ^c	TBR SD	Percent Recovery Mean ^d	Percent Recovery SD
Adipose	33.9	20	0.617	0.293	0.002	0.002
Bladder	1490	1730	24.6	27.8	0.005	0.003
Blood	51.6	11.7	1	0	0.008	0.002
Brain	BLOQ	-	BLOQ	-	<0.000	-
Cecum	3530	1510	66.4	22.8	0.012	0.005
Heart	22.5	5.59	0.435	0.039	<0.000	-
Kidney	240	22.5	4.8	0.997	0.004	0.001
Large Intestine	1070	640	20	12.4	0.013	0.009
Liver	157	63.3	2.96	0.748	0.013	0.006
Lung	52.2	17.8	0.992	0.204	0.001	0.001
Muscle	8.44	1.4	0.167	0.027	0.007	0.001
Pancreas	163	102	3	1.9	0.002	0.001
Plasma	68.9	24.2	1.31	0.236	0.006	0.002
Skin	51	24.3	1.01	0.529	0.02	0.01
Small Intestine	2390	1320	44	21.5	0.053	0.029
Spleen	51.9	16.9	0.994	0.137	<0.000	-
Stomach	116	71.5	2.12	1.19	0.001	0.001
Testes	16.5	6.92	0.309	0.078	<0.000	-
Thyroid	BLOQ	-	BLOQ	-	<0.000	-
Total	-	-	-	-	0.146	0.061

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Disposition Summary – Percent of Dose Recovered

Sample	9_01	9_02	9_03	9_04	Mean	SD
Urine ^{a, e}	55.2	47.3	48.8	46.3	49.4	3.98
Feces	27.6	34.9	32.9	34.7	32.5	3.40
Tissues	0.057	0.177	0.157	0.194	0.146	0.06
GI Tract Contents	0.17	0.68	0.54	0.88	0.57	0.3
Total	83.0	83.0	82.4	82.1	82.6	0.47

^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 Mean recovery <0.005 as calculated is presented as 0.000.

^e Includes cage rinse.

SD = standard deviation. \$

TBR = Tissue to blood ratio. \$