

**Distribution of Radioactivity 48 Hours Following Dermal Administration of [¹⁴C]Sulfolane
(100 mg/kg) to Male Harlan Sprague Dawley Rats with No Protective Appliance
over the Dose Site – 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	0.3	2.7	2.2	0.8	1.5	1.1
Urine	8 to 24	27.1	31.7	35.3	20.3	28.6	6.5
Urine	24 to 48 ^a	14.8	9.4	11.0	7.8	10.7	3.0
-	Subtotal	42.2	43.9	48.5	28.9	40.8	8.4
Cage Rinse	0 to 8	2.46	3.89	1.43	3.82	2.9	1.2
Cage Rinse	8 to 24	5.2	5.19	5.25	10.8	6.6	2.8
Cage Rinse	24 to 48	5.04	2.09	1.81	4.1	3.3	1.6
-	Subtotal	12.7	11.2	8.5	18.7	12.8	4.3
Urine + Cage Rinse	Subtotal	54.9	55.0	57.0	47.6	53.6	4.1
Feces	0 to 24	2.28	1.02	1.59	1.79	1.7	0.5
Feces	24 to 48	0.64	0.49	0.65	0.48	0.6	0.1
-	Subtotal	2.9	1.5	2.2	2.3	2.2	0.6
Total	-	57.8	56.5	59.2	49.9	55.9	4.1

Distribution in Tissues (48 h)

Tissue ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	311.0	130.0	0.056	0.015	0.023	0.010
Bladder	5190	3390	0.984	0.641	0	0
Blood	5250	950	1	0	0.365	0.067
Brain	1080	354	0.204	0.035	0.008	0.005
Cecum	2130.0	646.0	0.4	0	<0.005	-
Heart	1960	354	0.375	0.039	0.01	0.00
Kidney	2390	549	0.454	0.037	0.018	0.005
Large Intestine	2160	904	0.405	0.115	0.013	0.005
Liver	2000	442	0.38	0.034	0.06	0.008
Lung	2140	560	0.406	0.055	0.01	0.00
Muscle (hind leg)	2050	1330	0.382	0.211	0.768	0.499
Pancreas	1210	478	0.225	0.053	0.003	0.005
Plasma	1160	466	0.216	0.054	<0.005 ^d	-
Skin (abdominal)	11100	6650	2.02	0.994	1.98	1.18
Small Intestine	1740	571	0.328	0.058	0.02	0.008
Spleen	2010	455	0.381	0.034	0	0
Stomach	2170	631	0.411	0.07	0.01	0.00
Testes	1320	471	0.246	0.049	0.013	0.005
Thyroid	1490	874	0.289	0.153	0	0
Total	-	-	-	-	3.29	1.71

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Disposition Summary – Percent of Dose Recovered

Sample	9_01	9_02	9_03	9_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	54.9	55.0	57.0	47.6	53.6	4.1
Feces	2.9	1.5	2.2	2.3	2.2	0.6
Tissues	3.75	5.47	2.33	1.6	3.29	1.71
GI Tract Contents	0.12	0.05	0.05	0.04	0.1	0.0
Subtotal	61.7	62.1	61.6	51.5	59.2	5.13
Unabsorbed	-	-	-	-	-	-
Gauze	0.17	0.20	0.14	1.16	0.4	0.5
Appliance	NA	NA	NA	NA	NA	NA
Dose site skin rinse	0.04	0.07	0.04	0.42	0.1	0.2
Subtotal	0.2	0.3	0.2	1.6	0.6	0.68
Dose site	1.99	0.73	0.91	2.91	1.6	1.0
Total	63.9	63.1	62.7	56.0	61.4	3.63

^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 Includes cage rinse.

^d Plasma recovery based on analyzed aliquots only.