

**Distribution of Radioactivity 72 Hours Following Gavage Administration of [¹⁴C]Sulfolane
(30 mg/kg) 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	39.0	34.9	32.9	29.9	34.2	3.8
Urine	8 to 24	46.8	52.3	54.7	47	50.2	3.9
Urine	24 to 48	2.7	2.1	1.5	2.2	2.1	0.5
Urine	48 to 72 ^a	0.1	0.2	0.2	0.2	0.2	0
-	Subtotal	88.6	89.5	89.3	79.3	86.7	4.9
Cage Rinse	0 to 8	4.24	4.25	4.24	12.1	6.2	3.9
Cage Rinse	8 to 24	0.68	0.88	1.31	0.83	0.9	0.3
Cage Rinse	24 to 48	0.03	0.05	0.08	0.07	0.1	0
Cage Rinse	48 to 72	0.11	0.04	0.19	0.78	0.3	0.3
-	Subtotal	5.1	5.2	5.8	13.8	7.5	4.2
Urine + Cage Rinse	Subtotal	93.7	94.7	95.1	93.1	94.2	0.9
Feces	0 to 24	0.89	1.15	0.89	2.02	1.2	0.5
Feces	24 to 48	0.17	0.17	0.18	0.28	0.2	0.1
Feces	48 to 72	0.05	0.02	0.02	0.17	0.1	0.1
-	Subtotal	1.1	1.3	1.1	2.5	1.5	0.7
CO ₂	0 to 8	0.58	0.64	0.67	0.62	0.6	0.04
CO ₂	8 to 24	0.44	0.45	0.42	0.44	0.4	0.01
CO ₂	24 to 48	0.05	0.06	0.06	0.05	0.05	0.007
CO ₂	48 to 72	0.03	0.03	0.02	0.02	0.02	0.001
-	Subtotal	1.1	1.2	1.2	1.1	1.14	0.04
VOC	0 to 8	0.007	0.003	0.009	0.030	0.012	0.012
VOC	8 to 24	0.008	0.004	0.009	0.021	0.011	0.007
VOC	24 to 48	0.002	0.001	0.002	0.003	0.002	0.001
VOC	48 to 72	0.001	0.000	0.001	0.002	0.001	0.001
-	Subtotal	0.02	0.01	0.02	0.06	0.026	0.021
Total	-	95.9	97.2	97.4	96.7	96.8	0.7

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 Perirenal	63.8	12.5	0.025	0.005	0.015	0.006
Bladder	486	91.4	0.191	0.034	<0.005	-
Blood	2540	134	-	-	0.615	0.034
Brain	214	9.78	0.083	0.004	<0.005	-
Cecum	205	32.4	0.08	0.011	<0.005	-
Heart	632	54.2	0.249	0.02	0.01	0
Kidney	664	48.9	0.262	0.029	0.018	0.005
Large Intestine	270	70.7	0.106	0.027	0.008	0.005
Liver	495	28.5	0.195	0.009	0.058	0.005
Lung	658	115	0.258	0.032	0.01	0
Muscle (hind leg)	226	20.5	0.089	0.009	0.298	0.031
Pancreas	251	15.4	0.098	0.009	<0.005	-
Plasma	98.4	9.82	0.038	0.002	<0.005 ^d	-
Skin (abdominal)	290	25.7	0.115	0.013	0.18	0.02
Small Intestine	221	46.4	0.086	0.017	0.01	0
Spleen	607	105	0.239	0.036	<0.005	-
Stomach	316	14.2	0.125	0.005	0.005	0.006
Testes	209	9.18	0.082	0.003	0.01	0
Thyroid	489	99.2	0.194	0.043	<0.005	-
Total	-	-	-	-	1.24	0.07

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Disposition Summary – Percent of Dose Recovered

Sample	1_01	1_02	1_03	1_04	Mean	SD
Urine ^{a, c}	93.7	94.7	95.1	93.1	94.2	0.9
Feces	1.11	1.34	1.09	2.48	1.5	0.7
CO2	1.09	1.17	1.18	1.13	1.1	0.04
VOC	0.02	0.01	0.02	0.06	0.03	0.02
Tissues	1.14	1.24	1.25	1.31	1.24	0.07
GI Tract Contents	0.01	0.01	0.01	0.01	0.01	0
GI Tract Rinse	0	0	0	0	<0.005	-
Total	97.0	98.5	98.7	98.1	98.1	0.7

^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.