

**Distribution of Radioactivity 72 Hours Following Dermal Application of 2%
[¹⁴C]Hydroquinone to Female B6C3F1/N Mice with Covered Dose Sites – Group 24**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	24_01	24_02	24_03	24_04	Mean	SD
Urine	0 to 8	0.51	N.S.	N.S.	N.S.	0.128	0.26
Urine	8 to 24	1.99	2.67	1.33	8.37	3.59	3.23
Urine	24 to 48	3.42	12.9	14.6	14.3	11.3	5.31
Urine	48 to 72 ^a	4.45	7.98	8.48	3.04	5.99	2.66
-	Subtotal	10.4	23.6	24.4	25.8	21	7.15
Cage Rinse	0 to 8	0.7	1.57	1.89	1.14	1.32	0.52
Cage Rinse	8 to 24	2.81	5.86	2.51	4.43	3.9	1.55
Cage Rinse	24 to 48	7.47	5.25	8.20	3.96	6.22	1.96
Cage Rinse	48 to 72	3.76	4.53	3.16	2.50	3.49	0.87
-	Subtotal	14.7	17.2	15.8	12.0	14.9	2.19
Urine + Cage Rinse	Subtotal	25.1	40.8	40.2	37.8	36.0	7.36
Feces	0 to 24	0.55	0.72	0.64	0.59	0.62	0.08
Feces	24 to 48	0.87	0.94	1.02	2.21	1.26	0.64
Feces	48 to 72	1.22	1.25	1.81	2.36	1.66	0.54
-	Subtotal	2.64	2.91	3.48	5.16	3.55	1.13
Total	-	27.7	43.7	43.7	43.0	39.5	7.86

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	788	570	8.73	5.84	0.255	0.188
Bladder	300	187	3.35	2.05	0.0013	0.0007
Muscle (hind leg)	59.9	11.1	0.668	0.198	0.105	0.0238
Skin (abdominal)	705	480	8.74	8.27	0.531	0.358
Blood	92.9	17.6	1	0	0.0207	0.0042
Plasma	156	33.3	1.68	0.058	0.0029	0.0006
Liver	277	21.5	3.05	0.493	0.0527	0.0064
Kidney	384	96.2	4.1	0.454	0.0196	0.0052
Brain	71.4	12.7	0.77	0.013	0.0065	0.0011
Heart	65.5	14.8	0.704	0.075	0.001	0.0004
Lung	124	13.2	1.35	0.169	0.0036	0.0008
Stomach	331	159	3.52	1.35	0.0075	0.0035
Cecum	1080	586	11.6	5.44	0.0175	0.0109
Large Intestine	270	105	2.97	1.12	0.0119	0.0057
Small Intestine	335	145	3.59	1.22	0.0519	0.0267
Thyroid	599	505	5.9	4.88	<0.0001	<0.0001
Spleen	122	23.3	1.32	0.166	0.0004	0.0003
Ovaries	365	131	3.97	1.21	0.001	0.0004
Pancreas	169	25.6	1.9	0.613	0.0051	0.0009
Uterus with Fallopian Tubes	258	57.7	2.8	0.487	0.0028	0.0013
Femur	70	8.6	0.78	0.215	0.0008	0.0006
Marrow	BLOQ	-	BLOQ	-	BLOQ	-
Total	-	-	-	-	1.1	0.425

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Disposition Summary – Percent of Dose Recovered

Sample	24_01	24_02	24_03	24_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^{a, c}	25.1	40.8	40.2	37.8	36.0	7.36
Feces	2.64	2.91	3.48	5.16	3.55	1.13
Tissues	0.569	1.3	1.55	0.963	1.1	0.425
GI Tract Contents	0.40	0.31	0.23	0.11	0.26	0.12
Subtotal	28.7	45.3	45.5	44.0	40.9	8.1
Unabsorbed	-	-	-	-	-	-
Gauze	19.2	8.77	9.01	14.6	12.9	4.98
Appliance	0.97	5.25	13.2	3.61	5.75	5.25
Dose site skin rinse	26.0	9.16	7.06	8.80	12.7	8.86
Subtotal	46.1	23.2	29.3	27.0	31.4	10.1
Dose site	6.39	7.05	10.7	14.8	9.73	3.86
Total	81.2	75.6	85.5	85.8	82.0	4.78

^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 38.4%, skin 16.5%, and blood 4.9%.

^c Includes cage rinse.

N.S. = No sample.

BLOQ = Below the limit of quantitation. Aliquot DPM were less than 3 times background DPM. Background DPM typically <20 DPM.

SD = standard deviation.

TBR = Tissue to blood ratio.

2% dermal dose approximately equivalent to 20 mg/kg.