

**Distribution of Radioactivity 72 Hours Following Dermal Application of 2%
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice (Without Appliance) – Group 28**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	28_01	28_02	28_03	28_04	Mean	SD
Urine	0 to 8	N.S.	N.S.	N.S.	N.S.	0	0
Urine	8 to 24	40.5	53.3	46.5	44.2	46.1	5.39
Urine	24 to 48	4.07	4.13	1.09	6.86	4.04	2.35
Urine	48 to 72 ^a	1.13	1.07	0.43	0.62	0.81	0.34
-	Subtotal	45.7	58.5	48.0	51.7	51	5.58
Cage Rinse	0 to 8	6.97	2.44	1.11	1.14	2.91	2.77
Cage Rinse	8 to 24	5.31	11.6	21.8	29.5	17.1	10.7
Cage Rinse	24 to 48	1.82	1.65	1.69	1.65	1.70	0.08
Cage Rinse	48 to 72	7.47	1.32	1.92	0.89	2.90	3.07
-	Subtotal	21.6	17	26.5	33.2	24.6	6.95
Urine + Cage Rinse	Subtotal	67.3	75.5	74.5	84.9	75.6	7.22
Feces	0 to 24	17.6	11.3	11.3	4.66	11.2	5.28
Feces	24 to 48	0.81	0.88	0.80	0.47	0.74	0.19
Feces	48 to 72	0.31	0.39	0.30	0.39	0.35	0.05
-	Subtotal	18.7	12.6	12.4	5.51	12.3	5.4
Total	-	86.0	88.1	86.9	90.4	87.9	1.91

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	244	119	5.63	1.89	0.0677	0.0346
Bladder	162	66.2	3.97	1.84	0.0008	0.0004
Muscle (hind leg)	32.7	3.6	0.798	0.178	0.0503	0.0094
Skin (abdominal)	254	75.4	6.3	2.38	0.166	0.0519
Blood	41.9	5.9	1	0	0.0081	0.0014
Plasma	38.5	7.7	0.919	0.133	0.0004	0.0001
Liver	562	148	13.3	2.25	0.0979	0.022
Kidney	223	51.1	5.31	0.918	0.0149	0.0035
Brain	40.8	15.7	0.953	0.221	0.0029	0.0015
Heart	41.1	11.6	0.978	0.229	0.0008	0.0004
Lung	49.7	10.1	1.18	0.099	0.0012	0.0003
Stomach	122	23.9	2.92	0.437	0.0021	0.0004
Cecum	320	167	7.42	3.49	0.0029	0.001
Large Intestine	123	48.3	2.89	1.02	0.0035	0.0015
Small Intestine	124	37.2	2.93	0.694	0.0121	0.0032
Thyroid	376	305	9.5	8.81	<0.0001	<0.0001
Spleen (Mouse)	80.9	21.5	1.93	0.443	0.0004	0.0001
Pancreas	77.1	19.9	1.82	0.207	0.0025	0.0006
Testes (Mouse)	18.5	3.6	0.439	0.038	0.0005	0.0001
Femur	32.3	2.8	0.782	0.119	0.0004	0.0002
Marrow	113	59.9	2.6	1.02	<0.0001	<0.0001
Total	-	-	-	-	0.436	0.034

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Disposition Summary – Percent of Dose Recovered

Sample	28_01	28_02	28_03	28_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^{a, c}	67.3	75.5	74.5	84.9	75.6	7.22
Feces	18.7	12.6	12.4	5.51	12.3	5.40
Tissues	0.413	0.468	0.463	0.401	0.436	0.034
GI Tract Contents	0.02	0.02	0.04	0.04	0.03	0.01
Subtotal	86.4	88.6	87.4	90.9	88.3	1.9
Unabsorbed	-	-	-	-	-	-
Gauze	0.96	0.65	0.65	0.09	0.59	0.36
Dose site skin rinse	0.38	0.39	0.33	0.29	0.35	0.05
Subtotal	1.34	1.04	0.98	0.38	0.94	0.40
Dose site	1.52	1.45	1.26	1.60	1.46	0.15
Total	89.3	91.1	89.6	92.8	90.7	1.6

^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.

SD = standard deviation. \$

TBR = Tissue to blood ratio. \$

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