

**Distribution of Radioactivity 72 Hours Following Dermal Application of 20%
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice with Covered Dose Sites – Group 21**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	21_01	21_02	21_03	21_04	Mean	SD
Urine	0 to 8	N.S.	BLOQ	N.S.	0.01	0.00	0.01
Urine	8 to 24	1.24	1.20	0.89	1.77	1.27	0.36
Urine	24 to 48	1.16	1.25	2.41	1.78	1.65	0.58
Urine	48 to 72 ^a	1.09	0.77	1.62	3.65	1.78	1.29
-	Subtotal	3.49	3.22	4.93	7.20	4.71	1.82
Cage Rinse	0 to 8	2.97	0.20	0.43	0.36	0.99	1.33
Cage Rinse	8 to 24	2.11	1.30	0.81	1.59	1.45	0.55
Cage Rinse	24 to 48	1.10	1.00	1.01	0.29	0.85	0.38
Cage Rinse	48 to 72	2.11	1.55	1.59	1.42	1.67	0.30
-	Subtotal	8.29	4.05	3.84	3.66	4.96	2.23
Urine + Cage Rinse	Subtotal	11.8	7.27	8.77	10.9	9.67	2.04
Feces	0 to 24	2.57	0.51	0.59	0.65	1.08	0.99
Feces	24 to 48	0.54	0.22	1.66	0.46	0.72	0.64
Feces	48 to 72	0.24	0.15	0.34	1.14	0.47	0.46
-	Subtotal	3.35	0.87	2.60	2.25	2.27	1.04
Total	-	15.1	8.14	11.4	13.1	11.9	3.0

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	5000	4600	30	33	0.127	0.152
Bladder	1300	1500	3.0	0.7	0.0007	0.0009
Muscle (hind leg)	BLOQ	-	BLOQ	-	BLOQ	-
Skin (abdominal)	1930	958	5.48	0.08	0.159	0.0683
Blood	210	70	1	-	0.0039	0.0018
Plasma	250	74	1.5	0.1	0.0004	0.0001
Spleen	BLOQ	-	BLOQ	-	BLOQ	-
Liver	318	111	1.38	-	0.0054	0.00394908
Kidney	1130	349	7.25	4.60	0.0094	0.0043
Brain	170	57	1.1	0.8	0.0016	0.0008
Heart	BLOQ	-	BLOQ	-	BLOQ	-
Lung	260	83	1.5	0.1	0.0007	0.0003
Stomach	BLOQ	-	BLOQ	-	BLOQ	-
Cecum	4100	1200	8.3	6.2	0.0031	0.0025
Large Intestine	710	230	4.4	2.6	0.0028	0.0018
Small Intestine	770	440	4.5	1.4	0.0098	0.0062
Thyroid	2900	930	14	0	<0.0001	<0.0001
Marrow	BLOQ	-	BLOQ	-	BLOQ	-
Testes	BLOQ	-	BLOQ	-	BLOQ	-
Pancreas	670	740	6.7	6.5	0.0029	0.0034
Femur	340	59	1.7	0.3	0.0005	0.0005
Total	-	-	-	-	0.363	0.097

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Disposition Summary – Percent of Dose Recovered

Sample	21_01	21_02	21_03	21_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^{a, c}	11.8	7.27	8.77	10.9	9.67	2.04
Feces	3.35	0.87	2.60	2.25	2.27	1.04
Tissues	0.268	0.315	0.493	0.376	0.363	0.097
GI Tract Contents	0.06	0.02	0.02	0.08	0.05	0.03
Subtotal	15.5	8.5	11.9	13.6	12.4	3.0
Unabsorbed	-	-	-	-	-	-
Gauze	2.13	2.27	41.0	2.77	12.0	19.3
Appliance	3.08	1.47	1.64	0.67	1.72	1.00
Dose site skin rinse	66.8	66.6	49.9	82.6	66.5	13.4
Subtotal	72.0	70.3	92.5	86.0	80.2	10.8
Dose site	1.52	1.44	2.27	2.15	1.84	0.43
Total	89.0	80.2	106.7	101.8	94.4	12.0

^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.

20% dermal dose approximately equivalent to 200 mg/kg.