

**Distribution of Radioactivity 72 Hours Following Dermal Application of 10%
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice with Covered Dose Sites – Group 22**

Percent of Dose Recovered in Excreta

Sample	Collection Interval	22_01	22_02	22_03	22_04	Mean	SD
Urine	0 to 8	N.S.	0.00	N.S.	N.S.	0.00	0.00
Urine	8 to 24	1.51	1.02	1.65	0.54	1.18	0.51
Urine	24 to 48	2.69	1.19	2.11	0.27	1.56	1.06
Urine	48 to 72 ^a	2.10	1.29	1.68	0.21	1.32	0.81
-	Subtotal	6.29	3.50	5.44	1.02	4.06	2.34
Cage Rinse	0 to 8	0.34	1.13	0.40	0.16	0.51	0.43
Cage Rinse	8 to 24	1.50	0.81	1.24	0.88	1.11	0.32
Cage Rinse	24 to 48	2.27	1.06	1.91	1.44	1.67	0.53
Cage Rinse	48 to 72	2.70	1.20	2.47	2.98	2.34	0.79
-	Subtotal	6.82	4.19	6.03	5.45	5.62	1.11
Urine + Cage Rinse	Subtotal	13.1	7.69	11.5	6.47	9.69	3.12
Feces	0 to 24	0.28	0.07	0.77	0.79	0.48	0.36
Feces	24 to 48	0.64	0.15	0.35	1.16	0.58	0.44
Feces	48 to 72	0.34	0.15	0.27	1.34	0.52	0.55
-	Subtotal	1.26	0.37	1.39	3.29	1.58	1.23
Total	-	14.4	8.05	12.9	9.76	11.3	2.9

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	720	190	5.9	0.8	0.0409	0.0128
Bladder	6600	5700	48	42	0.008	0.0111
Muscle (hind leg)	120	84	0.97	0.48	0.0357	0.0279
Skin (abdominal)	958	372	8.79	1.40	0.152	0.0499
Blood	120	26	1	-	0.0052	0.0009
Plasma	200	55	1.6	0.2	0.0007	0.0002
Spleen	300	170	2.1	0.9	0.0002	0.0002
Liver	315	130	2.85	0.57	0.0136	0.0036
Kidney	980	395	8.93	2.24	0.0158	0.0065
Brain	100	27	0.91	0.08	0.0018	0.0003
Heart	BLOQ	-	BLOQ	-	BLOQ	-
Lung	170	60	1.5	0.4	0.001	0.0001
Stomach	BLOQ	-	BLOQ	-	BLOQ	-
Cecum	2300	1400	17	12	0.0071	0.0035
Large Intestine	470	260	4.1	1.8	0.0029	0.0014
Small Intestine	559	272	3.73	1.40	0.013	0.0059
Thyroid	BLOQ	-	BLOQ	-	BLOQ	-
Marrow	BLOQ	-	BLOQ	-	BLOQ	-
Testes	180	180	1.0	1.1	0.0006	0.0007
Pancreas	378	226	3.39	1.43	0.0032	0.0016
Femur	150	84	1.2	0.5	0.0005	0.0005
Total	-	-	-	-	0.305	0.108

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Disposition Summary – Percent of Dose Recovered

Sample	22_01	22_02	22_03	22_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^{a, c}	13.1	7.69	11.5	6.47	9.69	3.12
Feces	1.26	0.37	1.39	3.29	1.58	1.23
Tissues	0.216	0.214	0.433	0.355	0.305	0.108
GI Tract Contents	0.02	0.09	0.04	0.08	0.06	0.03
Subtotal	14.6	8.4	13.4	10.2	11.6	2.9
Unabsorbed	-	-	-	-	-	-
Gauze	2.56	5.96	4.87	3.88	4.32	1.45
Appliance	1.86	7.41	6.19	2.72	4.55	2.68
Dose site skin rinse	65.3	84.5	65.5	66.2	70.4	9.4
Subtotal	69.7	97.9	76.6	72.8	79.2	12.7
Dose site	1.77	3.14	2.84	3.83	2.89	0.86
Total	86.1	109.4	92.8	86.8	93.8	10.8

^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.

10% dermal dose approximately equivalent to 100 mg/kg.