

**Distribution of Radioactivity 72 Hours Following Dermal Application of 2%
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice with Covered Dose Sites – Group 23**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	23_01	23_02	23_03	23_04	Mean	SD
Urine	0 to 8	0.39	N.S.	N.S.	N.S.	0.10	0.20
Urine	8 to 24	1.50	4.55	8.21	3.60	4.47	2.80
Urine	24 to 48	4.04	7.48	4.93	7.65	6.03	1.82
Urine	48 to 72 ^a	3.27	9.15	6.92	7.26	6.65	2.46
-	Subtotal	9.20	21.2	20.1	18.5	17.3	5.5
Cage Rinse	0 to 8	1.26	N.S.	N.S.	N.S.	0.32	0.63
Cage Rinse	8 to 24	5.66	5.82	2.34	3.79	4.40	1.66
Cage Rinse	24 to 48	5.09	6.11	3.37	6.05	5.15	1.28
Cage Rinse	48 to 72	7.34	4.01	5.25	2.50	4.78	2.05
-	Subtotal	19.4	15.9	11.0	12.3	14.6	3.8
Urine + Cage Rinse	Subtotal	28.6	37.1	31.1	30.8	31.9	3.6
Feces	0 to 24	0.11	1.49	0.34	3.59	1.38	1.59
Feces	24 to 48	1.04	0.87	2.29	3.39	1.90	1.18
Feces	48 to 72	0.94	1.23	0.79	1.68	1.16	0.39
-	Subtotal	2.09	3.59	3.42	8.66	4.44	2.89
Total	-	30.6	40.7	34.4	39.5	36.3	4.7

Distribution in Tissues (72 h)

Tissues ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	1510	1970	15.5	19.7	0.486	0.644
Bladder	2400	2960	24.5	30.2	0.0151	0.0194
Muscle (hind leg)	55	17	0.58	0.10	0.0949	0.0238
Skin (abdominal)	354	91	3.78	0.82	0.264	0.07
Blood	94	14	1.00	-	0.0207	0.0023
Plasma	179	99	1.88	0.93	0.0035	0.0023
Spleen	150	63	1.72	1.06	0.001	0.0004
Liver	185	39	1.96	0.24	0.0475	0.0036
Kidney	991	270	10.6	2.43	0.0736	0.0193
Brain	105	14	1.12	0.03	0.0091	0.001
Heart	61	13	0.65	0.05	0.0016	0.0003
Lung	146	29	1.55	0.15	0.0046	0.0011
Stomach	BLOD	-	BLOD	-	BLOQ	-
Cecum	BLOD	-	BLOD	-	BLOD	-
Large Intestine	104	25	1.03	0.46	0.0036	0.0014
Small Intestine	178	66	1.91	0.66	0.0155	0.0073
Thyroid	733	1175	7.49	12.0	0.0001	0.0001
Femur	131	84	1.38	0.80	0.0016	0.001
Marrow	102	79	1.14	0.94	<0.0001	<0.0001
Pancreas	156	10	1.70	0.36	0.0059	0.0005
Testes	31	10	0.33	0.08	0.0011	0.0004
Total	-	-	-	-	1.05	0.734

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Disposition Summary – Percent of Dose Recovered

Sample	23_01	23_02	23_03	23_04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^{a, c}	28.6	37.1	31.1	30.8	31.9	3.6
Feces	2.09	3.59	3.42	8.66	4.44	2.89
Tissues	0.602	0.688	0.773	2.15	1.05	0.734
GI Tract Contents	0.04	0.05	0.06	0.04	0.05	0.01
Subtotal	31.3	41.4	35.4	41.7	37.4	5.0
Unabsorbed	-	-	-	-	-	-
Gauze	19.3	17.7	17.7	20.6	18.8	1.37
Appliance	2.23	3.03	0.65	3.72	2.41	1.32
Dose site skin rinse	23.6	16.6	28.5	23.8	23.1	4.90
Subtotal	45.1	37.4	46.9	48.1	44.3	4.8
Dose site	11.4	8.47	9.89	7.99	9.44	1.54
Total	87.8	87.3	92.1	97.7	91.3	4.8

^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.

BLOD = Below the limit of detection. Aliquot DPM were less than background DPM.

SD = standard deviation.

TBR = Tissue to blood ratio.

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