

**Distribution of Radioactivity 24 Hours Following Gavage Administration of 5 mg/kg
[¹⁴C]Hydroquinone to Male B6C3F1/N Mice – Group 10**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	10_01	10_02	10_03	10_04	Mean	SD
Urine	0 to 8	N.S.	N.S.	N.S.	N.S.	0	0
Urine	8 to 24 ^a	24.9	24	52.4	22.8	31	14.3
-	Subtotal	24.9	24.0	52.4	22.8	31.0	14.3
Cage Rinse	0 to 8	0.02	4.83	0.08	0.49	1.36	2.33
Cage Rinse	8 to 24	51.1	30	32.9	15.2	32.3	14.7
-	Subtotal	51.1	34.8	33.0	15.7	33.7	14.5
Urine + Cage Rinse	Subtotal	76.0	58.8	85.4	38.5	64.7	20.6
Feces	0 to 24	13.6	21	6.23	41.3	20.5	15.1
-	Subtotal	13.6	21.0	6.2	41.3	20.5	15.10
Total	-	89.6	79.8	91.6	79.8	85.2	6.29

Distribution in Tissues (24 h)

Tissue ^b	ng-eq/g Mean	ng-eq/g SD	TBR Mean	TBR SD	Percent Recovery Mean	Percent Recovery SD
Adipose Perirenal	79.9	60.7	4.81	4.49	0.118	0.0953
Bladder	201	193	13.1	16.8	0.0053	0.0046
Muscle (hind leg)	10.5	3.9	0.589	0.254	0.0826	0.0308
Skin (abdominal)	34.2	13.8	1.9	0.586	0.113	0.0356
Blood	18.5	6.2	1	0	0.0186	0.0063
Plasma	23.8	10.2	1.25	0.139	0.001	0.0004
Liver	202	24.1	11.6	2.75	0.0009	0.0002
Kidney	79.4	48	4.02	2.12	0.21	0.0273
Brain	10.3	3.2	0.573	0.127	0.0281	0.0169
Heart	10.5	2.3	0.583	0.085	0.0039	0.0012
Lung	47.4	41.5	3.19	3.73	0.0011	0.0002
Stomach	247	158	12.5	5.38	0.0076	0.007
Cecum	598	872	29	40.1	0.0203	0.0129
Large Intestine	140	59.2	7.68	2.21	0.0349	0.0509
Small Intestine	261	161	13.7	6.27	0.0212	0.0078
Thyroid	79.7	48.5	4.57	2.38	0.115	0.0589
Spleen (Mouse)	24.6	8.4	1.36	0.335	<0.0001	<0.0001
Pancreas	76.3	73.5	3.85	3.17	0.0183	0.0222
Testes (Mouse)	8.0	4.4	0.429	0.166	0.0013	0.0008
Femur	22	6.6	1.33	0.773	0.0012	0.0003
Marrow	BLOQ	-	BLOQ	-	<0.0001	<0.0001
Total	-	-	-	-	0.804	0.19

Disposition Summary – Percent of Dose Recovered

Sample	10_01	10_02	10_03	10_04	Mean	SD
Urine ^{a, c}	76.0	58.8	85.4	38.5	64.7	20.6
Feces	13.6	21.0	6.23	41.3	20.5	15.1
Tissues	0.845	0.85	0.536	0.984	0.804	0.19
GI Tract Contents	0.18	0.24	0.18	0.82	0.36	0.31
Total	90.6	80.9	92.3	81.6	86.4	6.0

^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.