

**Distribution of Radioactivity 72 Hours Following Gavage Administration of 0.5 mg/kg
[¹⁴C]Hydroquinone to Male Harlan Sprague Dawley Rats – Group 3**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	3_01	3_02	3_03	3_04	Mean	SD
Urine	0 to 8	0	61.7	29.6	71.2	54.2	21.8
Urine	8 to 24	16.9	3.15	5.74	6.47	8.07	6.06
Urine	24 to 48	0.29	0.21	0.21	0.42	0.28	0.10
Urine	48 to 72 ^a	0.04	0.12	0.06	0.11	0.08	0.04
-	Subtotal	17.2	65.2	35.6	78.2	49.1	27.7
Cage Rinse	0 to 8	76.8	21.0	56.5	16.6	42.7	28.9
Cage Rinse	8 to 24	1.63	0.65	1.35	0.77	1.10	0.47
Cage Rinse	24 to 48	0.11	0.21	0.11	0.06	0.12	0.06
Cage Rinse	48 to 72	0.10	0.12	0.32	0.1	0.16	0.11
-	Subtotal	78.6	22.0	58.3	17.5	44.1	29.4
Urine + Cage Rinse	Subtotal	95.9	87.2	93.9	95.7	93.2	4.10
Feces	0 to 24	1.19	1.12	1.08	1.26	1.2	0.08
Feces	24 to 48	0.12	0.59	0.28	0.13	0.3	0.22
Feces	48 to 72	0.03	0.08	0.04	0.02	0.0	0.03
-	Subtotal	1.34	1.79	1.40	1.41	1.5	0.21
Total	-	97.2	89.0	95.3	97.1	94.6	3.90

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	2.3	2.5	1.4	1.21	0.0301	0.0336
Bladder	1.5	1.4	1.11	0.36	<0.0001	<0.0001
Muscle (hind leg)	0.5	0.3	0.389	0.218	0.0358	0.0265
Skin (abdominal)	1.9	2	1.28	0.249	0.0688	0.0729
Blood	1.5	1.7	1	0	0.0214	0.024
Plasma	BLOQ	-	BLOQ	-	BLOQ	-
Spleen	1.5	1.6	1.02	0.14	0.0007	0.0007
Liver	2.1	0.4	2.43	1.29	0.014	0.0035
Kidney	3.7	3.8	2.51	0.223	0.0053	0.0055
Brain	7.3	13.9	2.17	3.16	0.0106	0.0201
Heart	0.9	1.1	0.564	0.092	0.0007	0.0009
Lung	5.3	9.3	1.87	1.92	0.0053	0.0095
Stomach	1.9	0.7	2.02	1.06	0.0019	0.0005
Cecum	2.3	0.7	2.52	1.24	0.0008	0.0001
Large Intestine	1.3	0.7	1.26	0.633	0.0016	0.001
Small Intestine	1	0.5	0.938	0.452	0.003	0.0013
Thyroid	13.3	21.2	5.76	3.8	0.0001	0.0002
Testes	0.4	0.4	0.296	0.066	0.0011	0.001
Pancreas	1.8	2.2	1.02	0.25	0.0014	0.0019
Femur	0.6	0.5	0.497	0.233	0.0001	0.0001
Marrow	1.3	0.9	BLOQ	-	BLOQ	-
Total	-	-	-	-	0.203	0.197

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Disposition Summary – Percent of Dose Recovered

Sample	3_01	3_02	3_03	3_04	Mean	SD
Urine ^{a, c}	95.9	87.2	93.9	95.7	93.2	4.10
Feces	1.34	1.79	1.40	1.41	1.49	0.21
Tissues	0.063	0.486	0.073	0.19	0.203	0.197
GI Tract Contents	0.01	0.02	0.01	0.01	0.01	0.01
Total	97.3	89.5	95.4	97.3	94.9	3.7

^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 40.4%, skin 19%, and blood 7.4%

^c Includes cage rinse.

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. \$