

**Distribution of Radioactivity 72 Hours Following Gavage Administration of 50 mg/kg
[¹⁴C]Hydroquinone to Male Harlan Sprague Dawley Rats – Group 1**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	1_01	1_02	1_03	1_04	Mean	SD
Urine	0 to 8	52.3	66.0	64.4	70.1	63.2	7.7
Urine	8 to 24	5.20	3.30	3.13	6.00	4.4	1.4
Urine	24 to 48	0.39	0.32	0.20	0.23	0.29	0.09
Urine	48 to 72 ^a	0.11	0.18	0.09	0.08	0.12	0.05
-	Subtotal	58.0	69.8	67.8	76.4	68.0	7.6
Cage Rinse	0 to 8	36.1	24.2	25.5	17.6	25.9	7.7
Cage Rinse	8 to 24	0.60	0.34	0.29	0.36	0.40	0.14
Cage Rinse	24 to 48	0.12	0.11	0.06	0.07	0.09	0.03
Cage Rinse	48 to 72	0.13	0.52	0.40	0.41	0.37	0.17
-	Subtotal	37	25.2	26.2	18.4	26.7	7.69
Urine + Cage Rinse	Subtotal	95.0	95.0	94.0	94.8	94.7	0.5
Feces	0 to 24	1.29	0.73	0.63	0.88	0.88	0.29
Feces	24 to 48	0.35	0.23	0.13	0.29	0.25	0.09
Feces	48 to 72	0.09	0.07	0.05	0.04	0.06	0.02
-	Subtotal	1.73	1.03	0.81	1.21	1.20	0.39
CO ₂	0 to 4	0.06	0.06	0.03	0.04	0.05	0.02
CO ₂	4 to 8	0.08	0.09	0.06	0.07	0.08	0.01
CO ₂	8 to 12	0.06	0.05	0.05	0.04	0.05	0.01
CO ₂	12 to 24	0.03	0.03	0.03	0.03	0.03	0.00
CO ₂	24 to 48	BLOQ (0.02)	BLOQ (0.01)	BLOQ (0.01)	0.02	0.02	0.00
CO ₂	48 to 72	BLOD	BLOQ (0.01)	BLOQ (0.01)	BLOD	<0.005	0.00
-	Subtotal	0.23	0.23	0.17	0.20	0.21	0.03
VOC	0 to 4	BLOQ	BLOD	BLOD	BLOD	<0.005	0.00
VOC	4 to 8	BLOD	BLOQ (0.00)	BLOD	BLOD	<0.005	0.00
VOC	8 to 12	BLOD	BLOD	BLOD	0.01	0.01	0.00
VOC	12 to 24	BLOD	BLOD	BLOD	BLOD	<0.005	0.00
VOC	24 to 48	BLOD	BLOD	BLOD	BLOQ (0.00)	<0.005	0.00
VOC	48 to 72	BLOD	BLOD	BLOD	BLOD	<0.005	0.00
-	Subtotal	<0.005	<0.005	<0.005	0.01	<0.005	0.01
Total	-	96.9	96.2	95.1	96.3	96.1	0.8

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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	120	46.2	0.52	0.24	0.0677	0.0346
Bladder	203	55.7	0.92	0.52	0.0008	0.0004
Muscle (hind leg)	65.2	24.2	0.26	0.04	0.0503	0.0094
Skin (abdominal)	399	179	1.80	0.98	0.166	0.0519
Blood	251	90.3	1.00	0.00	0.0081	0.0014
Plasma	174	84.3	0.69	0.15	0.0004	0.0001
Spleen	278	132	1.07	0.18	0.0979	0.022
Liver	1530	203	6.68	2.39	0.0149	0.0035
Kidney	694	222	2.81	0.15	0.0029	0.0015
Brain	322	214	1.17	0.48	0.0008	0.0004
Heart	105	41.2	0.42	0.05	0.0012	0.0003
Lung	210	118	0.80	0.22	0.0021	0.0004
Stomach	275	34.1	1.21	0.45	0.0029	0.001
Cecum	329	-	0.86	0.21	0.0035	0.0015
Large Intestine	190	57.4	0.64	0.13	0.0121	0.0032
Small Intestine	155	47.70	0.64	0.11	<0.0001	<0.0001
Thyroid	629	220	2.63	0.72	0.0004	0.0001
Femur	83.4	43.7	0.33	0.08	0.0004	0.0002
Marrow	322	171	1.27	0.68	<0.0001	<0.0001
Pancreas	263	121	1.01	0.13	0.0025	0.0006
Testes	78.1	55.1	0.29	0.13	0.0005	0.0001
Total	-	-	-	-	0.436	0.034

Disposition Summary – Percent of Dose Recovered

Sample	1_01	1_02	1_03	1_04	Mean	SD
Urine ^{a, c}	95.0	95.0	94.0	94.8	94.7	0.4
Feces	1.73	1.03	0.81	1.21	1.20	0.39
CO ₂	0.23	0.23	0.17	0.20	0.21	0.03
VOC	<0.005	<0.005	<0.005	0.01	<0.005	0.01
GI Tract Contents	0.01	0.02	0.01	0.01	0.01	0.01
GI Tract Rinse	<0.005	<0.005	<0.005	<0.005	<0.005	0.00
Tissues	0.41	0.47	0.46	0.40	0.44	0.03
Total	97.4	96.7	95.5	96.6	96.6	0.8

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

SD = standard deviation.

TBR = Tissue to blood ratio.