

**Distribution of Radioactivity 24 Hours Following Gavage Administration of 5 mg/kg
[¹⁴C]Hydroquinone to Male Harlan Sprague Dawley Rats – Group 5**

Percent of Dose Recovered in Excreta*

Sample	Collection Interval (h)	5_01	5_02	5_03	5_04	Mean	SD
Urine	0 to 8	58.9	49.7	59.4	59.5	56.9	4.79
Urine	8 to 24 ^a	8.58	7.30	2.98	5.63	6.12	2.42
-	Subtotal	67.5	57.0	62.4	65.1	63.0	4.51
Cage Rinse	0 to 8	27.8	37.9	32.1	31.5	32.3	4.17
Cage Rinse	8 to 24	0.55	1.13	0.51	1.11	0.83	0.34
-	Subtotal	28.4	39.0	32.6	32.6	33.2	4.40
Urine + Cage Rinse	Subtotal	95.9	96.0	95.0	97.7	96.2	1.13
Feces	0 to 24	0.98	1.21	1.21	0.74	1.03	0.23
-	Subtotal	0.98	1.21	1.21	0.74	1.03	0.23
Total	-	96.9	97.2	96.2	98.4	97.2	0.93

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	5.2	1.4	0.57	0.122	0.0069	0.0018
Bladder	79.6	36.1	8.79	3.91	0.0008	0.0005
Muscle (hind leg)	2.2	0.8	0.241	0.052	0.0174	0.0059
Skin (abdominal)	19.3	7.8	2.06	0.588	0.0706	0.0289
Blood	9.1	1.5	1	0	0.013	0.0022
Plasma	7	1.9	0.761	0.123	<0.0001	<0.0001
Spleen	9.6	1.1	1.06	0.112	0.0005	<0.0001
Liver	79.5	23.4	8.66	1.36	0.0605	0.0206
Kidney	43.1	14.5	4.67	1.03	0.0067	0.002
Brain	3.7	1.7	0.413	0.199	0.0005	0.0002
Heart	4.2	0.9	0.463	0.023	0.0003	<0.0001
Lung	7.3	0.9	0.812	0.055	0.0007	<0.0001
Stomach	62.9	21.9	7.07	2.52	0.006	0.0024
Cecum	54.2	21.9	5.89	1.98	0.0024	0.0012
Large Intestine	21.9	10.3	2.42	1.08	0.0031	0.0016
Small Intestine	29	8.2	3.18	0.653	0.0097	0.0031
Thyroid	17	4.3	1.9	0.545	<0.0001	<0.0001
Testes	3.4	0.5	0.376	0.026	0.0008	0.0001
Pancreas	10.7	1.7	1.2	0.191	0.0011	0.0003
Femur	6.7	0.6	0.741	0.059	0.0001	<0.0001
Marrow	9.3	2.7	1.02	0.229	<0.0001	<0.0001
Total	-	-	-	-	0.202	0.064

Disposition Summary – Percent of Dose Recovered

Sample	5_01	5_02	5_03	5_04	Mean	SD
Urine ^{a, c}	95.9	96.0	95.0	97.7	96.2	1.13
Feces	0.98	1.21	1.21	0.74	1.03	0.23
Tissues	0.231	0.277	0.158	0.141	0.202	0.064
GI Tract Contents	0.09	0.04	0.04	0.03	0.05	0.02
Total	97.2	97.5	96.4	98.6	97.4	0.91

* Data for Group 5 appear in Appendix C as Group 5a. There was an issue with the original Group 5 set up in Debra and a new Group 5a was created to capture data for this group instead. No data was captured in the original Group 5 in Debra.

^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.