

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of 5 mg/kg
[¹⁴C]Hydroquinone to Male Harlan Sprague Dawley Rats – Group 11**

Percent of Dose Recovered in Excreta*

Sample	Collection Interval (h)	11_01	11_03	11_04	Mean	SD
Urine	0 to 8	68.7	79.1	76.6	74.8	5.4
Urine	8 to 24	6.18	2.08	2.39	3.55	2.28
Urine	24 to 48	0.66	0.41	0.36	0.48	0.16
Urine	48 to 72 ^a	0.19	0.21	0.18	0.19	0.02
-	Subtotal	75.7	81.8	79.5	79.0	3.1
Cage Rinse	0 to 8	16.3	17.5	17.5	17.1	0.7
Cage Rinse	8 to 24	0.95	0.23	0.33	0.50	0.39
Cage Rinse	24 to 48	0.22	0.05	0.05	0.11	0.10
Cage Rinse	48 to 72	0.6	0.1	0.11	0.27	0.29
-	Subtotal	18.1	17.9	18.0	18.0	0.1
Urine + Cage Rinse	Subtotal	93.8	99.7	97.5	97.0	3.0
Feces	0 to 24	0.3	0.7	0.84	0.61	0.28
Feces	24 to 48	0.14	0.09	0.10	0.11	0.03
Feces	48 to 72	0.02	0.04	0.06	0.04	0.02
-	Subtotal	0.46	0.83	1.00	0.76	0.28
CO ₂	0 to 4	BLOQ(0.02)	BLOQ(0.01)	0.02	0.02	0.00
CO ₂	4 to 8	0.03	BLOQ(0.01)	0.03	0.03	0.00
CO ₂	8 to 12	0.01	0.02	0.02	0.02	0.01
CO ₂	12 to 24	0.02	0.01	0.02	0.02	0.01
CO ₂	24 to 48	BLOD	BLOD	BLOQ(0.01)	BLOQ(0.01)	-
CO ₂	48 to 72	BLOD	BLOQ (0.01)	BLOQ(0.02)	BLOQ(0.01)	-
-	Subtotal	0.06	0.03	0.09	0.06	0.03
VOC	0 to 4	BLOD	BLOD	BLOD	BLOQ(0.00)	-
VOC	4 to 8	BLOD	BLOD	BLOQ(0.00)	BLOQ(0.00)	-
VOC	8 to 12	BLOQ(0.00)	BLOD	BLOD	BLOQ(0.00)	-
VOC	12 to 24	BLOD	BLOD	BLOD	BLOQ(0.00)	-
VOC	24 to 48	BLOD	BLOD	BLOD	BLOQ(0.00)	-
VOC	48 to 72	BLOD	BLOQ(0.00)	BLOQ(0.00)	BLOQ(0.00)	-
-	Subtotal	BLOQ (0.00)	BLOQ (0.00)	BLOQ (0.00)	BLOQ(0.00)	-
Total	-	94.3	101	98.6	97.8	3.2

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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	40	34.5	0.21	0.18	0.0418	0.0494
Bladder	57.6	7.28	0.32	0.09	0.0002	0.0001
Muscle (hind leg)	18.4	2.12	0.10	0.01	0.109	0.0732
Skin (abdominal)	98.7	35.1	0.56	0.27	0.28	0.223
Blood	186	28.8	1.00	0.00	0.202	0.137
Plasma	55	2.41	0.30	0.04	0.0007	0.0005
Spleen	539	40.1	2.94	0.40	0.0208	0.0143
Liver	47.3	0.72	0.26	0.05	0.024	0.016
Kidney	170	11.1	0.93	0.18	0.0198	0.0134
Brain	134	5.69	0.74	0.14	0.0153	0.0103
Heart	39.3	6.57	0.21	0.01	0.0023	0.0016
Lung	83.9	6.35	0.46	0.04	0.0083	0.0065
Stomach	35.2	7.41	0.19	0.02	0.0029	0.002
Cecum	24.3	7.16	0.13	0.02	0.0012	0.001
Large Intestine	45.6	10.6	0.24	0.03	0.004	0.003
Small Intestine	28	5.70	0.15	0.02	0.0063	0.0043
Thyroid	275	109	1.57	0.87	0.0001	0.0001
Femur	23.7	5.4	0.13	0.01	0.0006	0.0004
Marrow	212	180	1.10	0.93	0.0001	0.0001
Pancreas	81.7	12.3	0.45	0.09	0.0067	0.0046
Testes	17.5	0.64	0.10	0.01	0.0036	0.0024
Total	-	-	-	-	0.75	0.518

Disposition Summary – Percent of Dose Recovered

Sample	11_01	11_03	11_04	Mean	SD
Urine ^{a, c}	93.8	99.7	97.5	97.0	3.0
Feces	0.46	0.83	1.00	0.76	0.28
CO ₂	0.06	0.03	0.09	0.06	0.03
VOC	<0.005	<0.005	<0.005	<0.005	-
GI Tract Contents	0.01	0.02	0.01	0.01	0.01
GI Tract Rinse	<0.005	<0.005	<0.005	<0.005	-
Tissues	0.819	1.15	1.03	0.75	0.518
Total	95.1	101.7	99.6	98.8	3.4

* Rat 11-02 was found dead at 48 hours (asphyxiation due to breath trap malfunction). No data are reported for this animal.

^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. \$

BL0D = Below the limit of detection. Aliquot DPM were less than background DPM. \$

SD = standard deviation. \$

TBR = Tissue to blood ratio. \$