

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg
[¹⁴C]2-Ethylhexyl-*p*-Methoxycinnamate in a Lotion Vehicle to Male Harlan Sprague Dawley Rats
Group 17a**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	17a-01	17a-02	17a-03	17a-04	Mean	SD
Urine	0 to 8	0.22	0.20	0.08	0.05	0.14	0.09
Urine	8 to 24	1.74	1.57	1.20	1.45	1.49	0.23
Urine	24 to 48	2.70	2.55	2.30	2.46	2.50	0.17
Urine	48 to 72 ^a	4.00	3.64	3.54	3.21	3.60	0.33
Cage Rinse	72	0.91	0.90	0.82	0.88	0.88	0.04
-	Subtotal	9.57	8.86	7.94	8.05	8.61	0.76
Feces	0 to 24	0.04	0.03	0.04	0.04	0.04	0.01
Feces	24 to 48	0.16	0.17	0.13	0.11	0.14	0.03
Feces	48 to 72	0.21	0.17	0.30	0.18	0.19	0.02
-	Subtotal	0.41	0.37	0.17	0.33	0.32	0.11
CO ₂	0 to 4	<0.005	<0.005	<0.005	<0.005	<0.005	N.A.
CO ₂	4 to 8	0.03	0.02	0.02	0.03	0.03	0.01
CO ₂	8 to 12	0.04	0.03	0.03	0.04	0.04	0.01
CO ₂	12 to 24	0.13	0.13	0.08	*0.00	0.11	0.03
CO ₂	24 to 48	0.30	0.25	0.19	0.39	0.28	0.08
CO ₂	48 to 72	0.35	0.29	0.23	0.33	0.30	0.05
-	Subtotal	0.85	0.72	0.55	0.79	0.73	0.13
Exhaled VOC	0 to 4	*0.00	*0.00	*0.00	*0.00	BLOQ	N.A.
Exhaled VOC	4 to 8	*0.00	*0.00	*0.00	*0.00	BLOQ	N.A.
Exhaled VOC	8 to 12	*0.00	*0.00	*0.00	*0.00	BLOQ	N.A.
Exhaled VOC	12 to 24	0.01	0.01	0.01	0.01	0.01	0.00
Exhaled VOC	24 to 48	0.03	0.02	0.02	0.01	0.02	0.01
Exhaled VOC	48 to 72	0.03	0.02	0.03	0.03	0.03	0.01
-	Subtotal	0.07	0.05	0.06	0.05	0.06	0.01
Total	-	10.9	10.0	8.72	9.22	9.71	0.95

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	94.0	6.4	2.43	0.47	0.09	0.02
Bladder	622	532	15.8	13.7	<0.005	N.A.
Muscle (hind leg)	14.9	8.1	0.34	0.21	0.08	0.04
Skin (abdominal)	38.0	11.3	0.95	0.16	0.10	0.02
Blood	39.3	5.2	1.00	-	0.04	0.00
Plasma	73.7	13.2	1.86	0.12	0.04	0.00
Spleen	26.0	3.8	0.67	0.08	0.02	0.03
Liver	189	70	4.87	1.98	0.10	0.05
Kidney	148	39	3.71	0.54	0.02	0.00
Brain	7.32	0.90	0.19	0.00	<0.005	N.A.
Heart	19.6	2.4	0.50	0.03	<0.005	N.A.
Lung	33.6	4.3	0.86	0.07	<0.005	N.A.
Stomach	183	288	4.17	6.29	0.01	0.02
Cecum	380	36	9.88	2.17	0.01	0.00
Large Intestine	85	38	2.25	1.18	0.01	0.00
Small Intestine	362	248	8.80	4.97	0.09	0.06
Thyroid	31.2	9.1	0.75	0.26	<0.005	N.A.
Testes	11.6	2.1	0.29	0.03	<0.005	N.A.
Pancreas	45.9	2.7	1.18	0.12	<0.005	N.A.
Total	-	-	-	-	0.59	0.09

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Disposition Summary – Percent of Dose Recovered

Sample	17a-01	17a-02	17a-03	17a-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	9.57	8.86	7.94	8.05	8.61	0.76
Feces	0.41	0.37	0.17	0.33	0.32	0.11
CO ₂	0.85	0.72	0.55	0.79	0.73	0.13
VOC	0.07	0.05	0.06	0.05	0.06	0.01
Tissues	0.48	0.66	0.68	0.55	0.59	0.09
GI Tract Contents	0.21	0.26	0.80	0.12	0.35	0.31
Subtotal	11.6	10.9	10.2	9.9	10.7	0.8
Unabsorbed	-	-	-	-	-	-
Gauze	61.8	59.4	48.2	66.1	58.9	7.6
Tape	0.74	0.28	0.99	1.03	0.76	0.35
Appliance	1.20	4.34	6.14	0.98	3.17	2.51
Dose site skin rinse	2.84	4.68	10.10	2.33	4.99	3.55
Subtotal	66.6	68.7	65.4	70.4	67.8	2.2
Dose site	4.18	4.27	4.50	4.49	4.36	0.16
Total	82.3	83.9	80.1	84.8	82.8	2.0

^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 40.4%, skin 19%, blood 7.4%, and plasma 4.3%.

^c Includes cage rinse.

BLOQ = Below limit of quantitation.

SD = standard deviation.

TBR = Tissue to blood ratio.

N.A. = not applicable.