

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg
[¹⁴C]2-Ethylhexyl-*p*-methoxycinnamate to Male B6C3F1/N Mice (Dose Site Unprotected) – Group 15**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	15-01	15-02	15-03	15-04	Mean	SD
Urine	0 to 8	BLOD	0.16	<0.005	N.S.	0.05	0.09
Urine	8 to 24	44.0	27.3	64.1	12.3	36.9	22.3
Urine	24 to 48	3.03	8.32	7.54	1.77	5.17	3.25
Urine	48 to 72 ^a	1.30	3.93	3.68	1.03	2.49	1.53
Cage Rinse	72	23.8	13.6	15.3	17.0	17.4	4.5
-	Subtotal	72.1	53.3	90.6	32.1	62.0	25.1
Feces	0 to 24	9.35	21.4	6.58	36	18.3	13.4
Feces	24 to 48	0.85	3.38	0.62	8.49	3.34	3.66
Feces	48 to 72	0.48	1.71	0.37	5.34	1.98	2.32
-	Subtotal	10.7	26.5	7.57	49.8	23.6	19.3
CO ₂	0 to 4	0.78	BLOQ(0.56)	BLOQ(0.45)	BLOQ(0.14)	0.78	N.A.
CO ₂	4 to 8	BLOQ(0.23)	BLOQ(0.20)	0.57	BLOQ(0.14)	0.57	N.A.
CO ₂	8 to 12	BLOQ(0.14)	BLOQ(0.12)	BLOQ(0.21)	BLOQ(0.26)	N.A.	N.A.
CO ₂	12 to 24	BLOQ(0.22)	BLOQ(0.38)	BLOQ(0.28)	BLOQ(0.47)	N.A.	N.A.
CO ₂	24 to 48	BLOQ(0.24)	BLOQ(0.27)	BLOQ(0.13)	BLOQ(0.31)	N.A.	N.A.
CO ₂	48 to 72	BLOQ(0.05)	BLOD	BLOQ(0.01)	BLOQ(0.03)	N.A.	N.A.
-	Subtotal	0.78	BLOQ	0.57	BLOQ	0.34	0.40
Total	-	83.6	79.8	98.8	81.9	86.0	8.6

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	106	31	11.9	6.57	0.10	0.03
Bladder	133	121	16.6	13.3	<0.005	N.A.
Muscle (hind leg)	BLOQ(43.9)	N.A.	BLOQ(2.08)	1.52	BLOQ(0.24)	N.A.
Skin (abdominal)	50.4	4.6	6.23	1.04	0.11	0.02
Blood	BLOQ	N.A.	1.00	0.00	BLOQ	N.A.
Plasma	13.0	1.7	1.60	0.25	0.01	0.00
Spleen	BLOQ	N.A.	1.18	0.24	BLOQ	N.A.
Liver	70.7	10.1	8.65	1.09	0.05	0.01
Kidney	84.4	13.9	10.4	1.92	0.02	0.00
Brain	BLOQ(4.48)	N.A.	BLOQ(0.45)	0.13	BLOQ(<0.005)	N.A.
Heart	BLOQ(12.5)	N.A.	BLOQ(1.40)	0.30	BLOQ(<0.005)	N.A.
Lung	19.8	5.4	2.37	0.23	<0.005	N.A.
Stomach	60.1	30.8	6.01	2.72	<0.005	N.A.
Cecum	134	73	13.50	7.84	<0.005	N.A.
Large Intestine	36.7	10.7	4.50	1.18	<0.005	N.A.
Small Intestine	50.6	20.8	6.10	2.35	0.01	0.01
Thyroid	BLOQ(254)	N.A.	BLOQ(10.2)	15.9	BLOQ(<0.005)	N.A.
Testes	BLOQ	N.A.	0.62	0.27	BLOQ	N.A.
Pancreas	38.8	10.1	4.91	1.98	0.01	0.00
Total	-	-	-	-	0.34	0.17

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Disposition Summary – Percent of Dose Recovered

Sample	15-01	15-02	15-03	15-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	72.1	53.3	90.6	32.1	62.0	25.1
Feces	10.7	26.5	7.57	49.8	23.6	19.3
CO ₂	0.78	BLOQ	0.57	BLOQ	0.34	0.40
Tissues	0.26	0.30	0.60	0.22	0.34	0.17
GI Tract Contents	0.03	0.03	0.06	0.09	0.05	0.03
Subtotal	83.9	80.1	99.4	82.2	86.4	8.8
Unabsorbed	-	-	-	-	-	-
Remaining Carcass	0.45	0.38	0.67	0.55	0.51	0.13
Gauze	0.16	0.08	0.11	0.12	0.12	0.03
Dose site skin rinse	0.12	0.05	0.05	0.06	0.07	0.04
Subtotal	0.74	0.51	0.83	0.72	0.19	0.13
Dose site	0.25	0.19	0.47	0.45	0.34	0.14
Total	84.9	80.8	101	83.4	87.5	9.0

^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 38.4%, skin 16.5%, blood 4.9%, and plasma 2.8%.

^c Includes cage rinse.

^d Remaining Carcass is calculated by subtracting muscle, skin, and adipose estimations from digested carcass.

N.S. = Not significant and N.A. = Not applicable.

BLOD = Below the limit of detection.

BLOQ = Below the limit of quantitation.

SD = standard deviation.

TBR = Tissue to blood ratio.

Vehicle for dermal administration was ethanol.