

**Distribution of Radioactivity 72 Hours Following Dermal Application of 8 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-methoxycinnamate in Ethanol Vehicle to Male B6C3F1/N Mice – Group 13**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	13-01	13-02	13-03	13-04	Mean	SD
Urine	0 to 8	N.S.	N.S.	N.S.	<0.005	<0.005	N.A.
Urine	8 to 24	19.1	27.0	11.5	29.6	21.8	8.19
Urine	24 to 48	9.27	7.70	4.88	8.09	7.49	1.86
Urine	48 to 72 ^a	6.80	2.76	2.81	4.71	4.27	1.92
Cage Rinse	72	20.7	15.6	19.6	5.35	15.3	6.99
-	Subtotal	55.9	53.1	38.8	47.8	48.9	7.51
Feces	0 to 24	1.41	6.11	2.97	1.6	3.02	2.17
Feces	24 to 48	0.49	0.48	0.89	0.82	0.67	0.22
Feces	48 to 72	0.3	0.77	0.99	0.26	0.58	0.36
-	Subtotal	2.20	7.36	4.85	2.68	4.27	2.36
CO ₂	0 to 4	BLOQ(0.02)	BLOQ(0.16)	BLOD	BLOD	BLOQ	N.A.
CO ₂	4 to 8	BLOQ(0.04)	BLOD	BLOD	BLOD	BLOQ	N.A.
CO ₂	8 to 12	BLOQ(0.13)	BLOD	BLOD	BLOD	BLOQ	N.A.
CO ₂	12 to 24	BLOQ(0.24)	BLOQ(0.27)	BLOQ(0.07)	BLOD	BLOQ	N.A.
CO ₂	24 to 48	0.53	BLOQ(0.23)	BLOQ(0.21)	BLOQ(0.02)	0.53	N.A.
CO ₂	48 to 72	BLOQ(0.27)	BLOQ(0.05)	BLOQ(0.08)	BLOD	BLOQ	N.A.
-	Subtotal	0.53	<0.005	0.01	0.13	0.13	0.27
Total	-	58.6	60.4	43.7	50.6	53.3	7.7

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	78.5	23.1	5.88	1.29	0.07	0.02
Bladder	190	158	15.1	14	<0.005	N.A.
Muscle (hind leg)	BLOQ(12.1)	N.A.	BLOQ(0.43)	0.21	BLOQ(<0.005)	N.A.
Skin (abdominal)	60.8	31.7	4.80	2.95	0.13	0.07
Blood	13.8	2.5	1.00	-	0.01	0.00
Plasma	20.0	5.5	1.50	0.25	0.01	0.00
Spleen	BLOQ(61.5)	N.A.	BLOQ(1.71)	2.35	BLOQ(<0.005)	N.A.
Liver	61.7	16.5	4.61	0.53	0.05	0.01
Kidney	91.5	28.7	6.87	1.58	0.02	0.01
Brain	BLOQ	N.A.	BLOQ(0.2)	0.04	BLOQ	N.A.
Heart	14.8	N.A.	0.78	0.07	BLOQ(<0.005)	N.A.
Lung	18.3	4.2	1.37	0.14	<0.005	N.A.
Stomach	70.4	52.8	5.56	4.69	0.01	0.00
Cecum	105	76	8.56	6.79	<0.005	N.A.
Large Intestine	91.5	124	6.01	7.13	0.01	0.00
Small Intestine	96.1	41.7	7.34	3.57	0.03	0.01
Thyroid	BLOQ(180)	N.A.	BLOQ(6.96)	7.21	BLOQ(<0.005)	N.A.
Testes	BLOQ(14.9)	N.A.	BLOQ(0.49)	0.53	BLOQ(<0.005)	N.A.
Pancreas	34.7	27.8	2.45	1.52	<0.005	N.A.
Total	-	-	-	-	0.34	0.07

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Disposition Summary – Percent of Dose Recovered

Sample	13-01	13-02	13-03	13-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	55.9	53.1	38.8	47.8	48.9	7.5
Feces	2.20	7.36	4.85	2.68	4.27	2.36
CO ₂	0.53	0.00	0.01	0.13	0.13	0.27
Tissues	0.38	0.28	0.42	0.29	0.34	0.07
GI Tract Contents	0.14	0.05	0.11	0.04	0.09	0.05
Subtotal	59.1	60.8	44.2	50.9	53.7	7.7
Unabsorbed	-	-	-	-	-	-
Appliance Extract	8.83	4.32	4.70	2.12	4.99	2.80
Remaining Carcass ^d	0.06	0.82	9.60	0.55	2.76	4.57
Gauze	4.79	5.50	8.13	18.52	9.24	6.35
Dose site skin rinse	2.70	1.81	4.13	13.70	5.59	5.49
Subtotal	16.4	12.5	26.6	34.9	22.6	10.1
Dose site	0.98	2.43	1.96	1.09	1.62	0.698
Total	76.5	75.6	72.7	86.9	77.9	6.2

^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.
A metal mesh tissue capsule placed immediately after dose administration was used as the protective appliance.
N.S. = not significant and N.A. = not applicable.
BLOQ = Below limit of quantitation.
SD = standard deviation.
TBR = Tissue to blood ratio.