

**Distribution of Radioactivity 72 Hours Following Dermal Application of 0.8 mg/kg
[¹⁴C] 2-Ethylhexyl-*p*-methoxycinnamate in Ethanol to Male B6C3F1/N Mice – Group 14**

Percent of Dose Recovered in Excreta

Sample	Collection Interval (h)	14-01	14-02	14-03	14-04	Mean	SD
Urine	0 to 8	9.96	N.S.	N.S.	N.S.	2.49	4.98
Urine	8 to 24	14.3	27.2	28.9	29.3	24.9	7.14
Urine	24 to 48	15.8	12.4	8.95	10.0	11.8	3.04
Urine	48 to 72 ^a	4.87	3.16	4.37	1.86	3.56	1.34
Cage Rinse	72	7.76	2.20	5.48	2.99	4.61	2.52
-	Subtotal	52.7	45.0	47.7	44.2	47.4	3.9
Feces	0 to 24	1.20	1.55	*0.90	0.89	1.21	0.33
Feces	24 to 48	1.93	0.82	1.09	0.62	1.12	0.58
Feces	48 to 72	BLOQ(0.30)	BLOD	BLOD	BLOD	BLOQ	N.A.
-	Subtotal	3.13	2.37	1.09	1.51	2.03	0.91
CO ₂	0 to 4	BLOQ(0.22)	BLOQ(0.13)	BLOQ(0.18)	BLOQ(0.18)	BLOQ	N.A.
CO ₂	4 to 8	BLOQ(0.12)	BLOQ(0.08)	BLOQ(0.17)	BLOQ(*0.14)	BLOQ	N.A.
CO ₂	8 to 12	BLOQ(0.10)	BLOQ(0.30)	BLOQ(0.16)	BLOQ(0.23)	BLOQ	N.A.
CO ₂	12 to 24	BLOQ(0.22)	0.33	BLOQ(0.23)	0.28	0.31	0.04
CO ₂	24 to 48	BLOQ(0.21)	0.36	0.29	BLOQ(0.16)	0.33	0.05
CO ₂	48 to 72	BLOQ(0.12)	0.10	0.13	(BLOQ(0.08))	0.12	0.02
-	Subtotal	BLOQ	0.79	0.42	0.28	0.37	0.33
Total	-	55.8	48.1	49.2	45.9	49.8	4.3

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	6.20	2.52	8.14	5.35	0.05	0.02
Bladder	39.4	35.3	40.0	50.9	0.01	0.01
Muscle (hind leg)	BLOQ	N.A.	0.91	0.60	BLOQ	N.A.
Skin (abdominal)	4.52	2.31	4.74	2.86	0.10	0.05
Blood	BLOQ	N.A.	1.00	-	BLOQ	N.A.
Plasma	1.75	0.46	2.01	0.94	0.01	0.00
Spleen	BLOQ	N.A.	0.99	0.34	BLOQ	N.A.
Liver	4.93	1.47	5.66	2.83	0.03	0.01
Kidney	7.15	1.43	8.34	3.73	0.02	0.00
Brain	BLOQ	N.A.	0.37	0.27	BLOQ	N.A.
Heart	BLOQ	N.A.	1.27	0.40	BLOQ	N.A.
Lung	BLOQ	N.A.	1.88	0.94	BLOQ	N.A.
Stomach	BLOQ	N.A.	2.94	0.35	BLOQ	N.A.
Cecum	BLOQ	N.A.	4.13	1.90	BLOQ	N.A.
Large Intestine	BLOQ	N.A.	1.34	N.A.	BLOQ	N.A.
Small Intestine	8.12	2.04	9.44	4.54	0.02	0.01
Thyroid	BLOQ	N.A.	13.50	12.00	BLOQ	N.A.
Testes	BLOQ	N.A.	5.66	2.83	BLOQ	N.A.
Pancreas	3.32	1.15	3.09	1.01	<0.005	0.00
Total	-	-	-	-	0.16	0.04

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Disposition Summary – Percent of Dose Recovered

Sample	14-01	14-02	14-03	14-04	Mean	SD
Absorbed	-	-	-	-	-	-
Urine ^c	52.7	45.0	47.7	44.2	47.4	3.9
Feces	3.13	2.37	1.09	1.51	2.03	0.91
CO ₂	N.A.	0.79	0.42	0.28	0.37	0.33
Tissues	0.20	0.19	0.13	0.13	0.16	0.04
GI Tract Contents	0.12	0.07	0.05	0.26	0.13	0.09
Subtotal	56.1	48.4	49.4	46.3	50.1	4.3
Unabsorbed	-	-	-	-	-	-
Gauze	20.7	24.9	20.9	28.9	23.8	12.0
Appliance	4.99	9.05	10.60	15.30	9.99	4.26
Dose site skin rinse	2.33	2.68	1.34	1.39	1.93	0.67
Subtotal	28.0	36.6	32.9	45.6	35.8	7.4
Dose site	1.70	1.41	1.24	1.52	1.47	0.19
Total	85.9	86.4	83.5	93.4	87.3	4.3

^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.

N.S. = not significant and N.A. = not applicable \$ BLOD = Below the limit of detection.

BLOQ = Below limit of quantitation.

SD = standard deviation.

TBR = Tissue to blood ratio.

A metal mesh tissue capsule placed immediately after dose administration was used as the protective appliance.