

ADME NTP Study S0608 o-Toluidine

The contract laboratory abbreviation for the test article is OTL.

Sex/Species: adult male F-344 rats.

Vehicle: oral, dilute hydrochloric acid (pH 3)

CASRN 95-53-4

Radiolabeled with carbon-14 in the phenyl ring; o-Toluidine hydrochloride, [ring-U-¹⁴C]-

o-Toluidine Studies Performed:

- Single 156 mg/kg oral gavage dose in rats with sacrifice 72 hours postdose.
- Single 1.56 mg/kg oral gavage dose in rats with sacrifice 72 hours postdose.

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Table 1**Cumulative Excretion of Radioactivity 72 h after Oral Administration of [¹⁴C]OTL^a****156 mg/kg**

End of Collection Period (h)	Percent of Dose Recovered in:		
	Urine	Feces	Total
4 h	15.8 ± 3.3	—	15.8 ± 3.3
8 h	36.0 ± 6.6	0.186 ± 0.038	36.2 ± 6.6
24 h	88.7 ± 6.9	4.65 ± 1.39	93.3 ± 6.2
48 h	95.2 ± 5.0	5.82 ± 1.36	101 ± 4
72 h	96.8 ± 4.5	6.11 ± 1.31	104 ± 3
Cagewash	97.6 ± 4.1		104 ± 3

1.56 mg/kg

End of Collection Period (h)	Percent of Dose Recovered in:		
	Urine	Feces	Total
4 h	50.8 ± 10.5	—	50.8 ± 10.5
8 h	63.0 ± 10.4	0.217 ± 0.261	63.2 ± 10.6
24 h	77.7 ± 3.6	3.17 ± 0.58	80.8 ± 3.4
48 h	80.5 ± 2.2	3.62 ± 0.40	84.1 ± 2.0
72 h	81.1 ± 2.2	4.17 ± 0.88	85.2 ± 1.4
Cagewash	81.4 ± 2.0		85.6 ± 1.2

^a N=4 F-344 male rats