

**Recovery of Radioactivity Through 72 Hours Following Unprotected Dermal Administration
of 20 mg/kg [¹⁴C] 5-Amino-o-cresol to Female F344 Rats (Study AR)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Feces CPDE	Volatile Organics ^c CPDE	CO ₂ ^c CPDE	Total CPDE
6	29.5 ± 6.1	d	0.0361 ± 0.0168	0.229 ± 0.204	29.8 ± 6.2
12	35.7 ± 4.8	0 ± 0	0.0454 ± 0.0184	0.273 ± 0.219	36.0 ± 5.0
24	40.7 ± 6.6	0.160 ± 0.320	0.0527 ± 0.0113	0.341 ± 0.262	41.2 ± 6.7
48	43.0 ± 6.8	0.286 ± 0.335	0.0575 ± 0.0130	0.408 ± 0.237	43.8 ± 6.8
72 ^e	44.5 ± 6.9	0.286 ± 0.335	0.0674 ± 0.0132	0.483 ± 0.213	45.3 ± 6.9

Distribution in Tissues (72 hours)

Tissue	nmol-eq AOC per g Tissue Mean	nmol-eq AOC per g Tissue SD	Tissue/Blood Ratio ^f	% Dose in Total Tissue ^g Mean	% Dose in Total Tissue SD
Adipose ^h	3.01	1.95	NA ⁱ	0.101	0.069
Urinary Bladder	1.56	2.87	NA	0.0003	0.0004
Blood ^h	0	0	NA	0	0
Brain	0.0153	0.0307	NA	0.0001	0.0001
Heart	0.173	0.345	NA	0.0003	0.0006
Kidney	0	0	NA	0	0
Liver	0	0	NA	0	0
Lung	42.9	85.9	NA	0.0788	0.1575
Muscle ^h	17.2	28.4	NA	3.40	5.67
Skin ^h	7.66	7.10	NA	0.696	0.669
Spleen	0	0	NA	0	0
Thyroid	0	0	NA	0	0
Uterus	236	470	NA	0.0604	0.1200
Stomach ^j	NA	—	NA	0.0187	0.0016
Small Intestine ^j	NA	—	NA	0.0399	0.0184
Cecum ^j	NA	—	NA	0.0778	0.0261
Large Intestine ^j	NA	—	NA	0.0291	0.0094
Carcass ^k	NA	—	NA	12.3	5.3

Disposition Summary – Overall Percent Dose Recovered (Absorbed + Unabsorbed Dose)

Percent Dose Recovered	Mean ± SD
Absorbed Dose	—
Tissues	16.8 ± 2.5
Dose-Site Skin	1.70 ± 1.40
Excreta	45.3 ± 6.9
Total % Dose Absorbed	63.8 ± 8.1
Unabsorbed Dose	—
Gauze Wash	24.8 ± 13.5
Dose-Site Rinse	0.0218 ± 0.0119
Total % Dose Unabsorbed	24.8 ± 13.5
Overall % Dose Recovered	88.6 ± 9.6

^aAll values expressed as mean ± standard deviation (SD) (N = 4). The target dose was 20 mg AOC/kg. The actual dose delivered was 26.5 ± 2.2 mg/kg.

^bCPDE = Cumulative percent dose excreted.

^cVolatile organics and CO₂ in exhaled breath.

^dThe first feces collection was 0–12 h.

^e72-hour urine collection includes urine present in the urinary bladder at study termination.

^fRadioactivity was not detected in blood; therefore tissue/blood ratios cannot be determined.

^gA value of 0 ± 0% dose in total tissue indicates a mean < 0.00005% dose in total tissue.

^hPercent of dose in these tissues was calculated using the following percentages of body weight: adipose 7.0%, blood 7.4%, muscle 40.4%, and skin 19.0%.

ⁱNA = Not applicable.

NTP Study S0852 5-Amino-o-cresol (AOC)

ⁱincludes contents.

^kCarcass values are based on the residual digested carcass after the removal of the listed tissues (i.e., percent dose measured in skin, adipose, blood, and muscle was subtracted from the total percent dose measured in the carcass).