

**Recovery of Radioactivity Through 24 Hours Following Protected Dermal Administration
of 2 mg/kg [¹⁴C] 5-Amino-o-cresol to Female F344 Rats (Study D)^a**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE ^b	Feces ^c CPDE	Volatile Organics ^d CPDE	CO ₂ ^d CPDE	Total CPDE
6	2.91 ± 2.26	e	0.0101 ± 0.0077	0.0302 ± 0.0349	2.95 ± 2.27
12	5.27 ± 2.76	0 ± 0	0.0167 ± 0.0110	0.0630 ± 0.0303	5.35 ± 2.79
24 ^f	7.40 ± 3.43	0 ± 0	0.0244 ± 0.0170	0.0787 ± 0.0348	7.50 ± 3.46

Distribution in Tissues (24 hours)

Tissue	nmol-eq AOC per g Tissue ^c Mean	nmol-eq AOC per g Tissue SD	Tissue/Blood Ratio ^g	% Dose in Total Tissue ^c Mean	% Dose in Total Tissue SD
Adipose ^h	0.116	0.134	NA ⁱ	0.0417	0.0495
Urinary Bladder	0.0710	0.1419	NA	0.0001	0.0002
Blood ^h	0	0	NA	0	0
Brain	0.0084	0.0105	NA	0.0004	0.0005
Heart	0.0167	0.0334	NA	0.0003	0.0006
Kidney	0.0083	0.0166	NA	0.0003	0.0006
Liver	0	0	NA	0	0
Lung	0.0051	0.0102	NA	0.0001	0.0002
Muscle ^h	0.0419	0.0490	NA	0.0846	0.0985
Skin ^h	0.184	0.150	NA	0.172	0.139
Spleen	0.0135	0.0271	NA	0.0002	0.0003
Thyroid	0.566	0.917	NA	0.0002	0.0004
Uterus	0.0127	0.0254	NA	0.0002	0.0003
Stomach ^j	NA	–	NA	0.0594	0.0815
Small Intestine ^j	NA	–	NA	0.0619	0.0277
Cecum ^j	NA	–	NA	0.133	0.130
Large Intestine ^j	NA	–	NA	0.106	0.047
Carcass ^k	NA	–	NA	1.13	1.90

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

Percent Dose Recovered	Mean ± SD
Absorbed Dose	–
Tissues	1.80 ± 2.15
Dose-Site Skin	8.58 ± 4.08
Excreta	7.50 ± 3.46
Total % Dose Absorbed	17.9 ± 7.0
Unabsorbed Dose	–
Gauze Wash	19.7 ± 5.4
Appliance	43.4 ± 3.9
Cover	21.9 ± 23.7
Dose-Site Rinse	0.392 ± 0.107
Total % Dose Unabsorbed	85.4 ± 15.9
Overall % Dose Recovered	103 ± 13

^aAll values expressed as mean ± standard deviation (SD) (N = 4). The target dose was 2 mg AOC/kg. The actual dose delivered was 2.46 ± 0.09 mg/kg.

^bCPDE = Cumulative percent dose excreted.

^cA value of 0 ± 0 indicates a mean < 0.00005.

^dVolatile organics and CO₂ in exhaled breath.

^eThe first feces collection was 0–12 hours (h).

^f24-h urine collection includes urine present in the urinary bladder at study termination.

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

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

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

ⁱNA = Not applicable.

^jIncludes 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).