

**Recovery of Radioactivity Through 72 Hours Following Protected Dermal Administration  
of 20 mg/kg [<sup>14</sup>C] 5-Amino-o-cresol to Female F344 Rats (Study B)<sup>a</sup>**

Dose Recovered in Excreta (%)

End of Collection Period (h)	Urine CPDE <sup>b</sup>	Feces CPDE	Volatile Organics <sup>c</sup> CPDE	CO <sub>2</sub> <sup>c</sup> CPDE	Total CPDE
6	0.764 ± 0.872	d	0.0170 ± 0.0095	0.0671 ± 0.0436	0.848 ± 0.919
12	2.32 ± 1.63	0 ± 0	0.0298 ± 0.0127	0.0954 ± 0.0610	2.45 ± 1.68
24	3.69 ± 2.58	0.0024 ± 0.0047	0.0431 ± 0.0159	0.156 ± 0.063	3.90 ± 2.62
48	4.40 ± 2.92	0.0024 ± 0.0047	0.0528 ± 0.0151	0.207 ± 0.095	4.66 ± 2.95
72 <sup>e</sup>	4.79 ± 3.06	0.0024 ± 0.0047	0.0596 ± 0.0121	0.275 ± 0.131	5.12 ± 3.06

Distribution in Tissues (72 hours)

Tissue	nmol-eq AOC per g Tissue Mean	nmol-eq AOC per g Tissue SD	Tissue/Blood Ratio <sup>f</sup>	% Dose in Total Tissue <sup>g</sup> Mean	% Dose in Total Tissue SD
Adipose <sup>h</sup>	4.05	5.00	0.146	0.138	0.174
Urinary Bladder	0	0	0	0	0
Blood <sup>h</sup>	3.12	6.25	Unity	0.109	0.219
Brain	0.203	0.249	0	0.0009	0.0010
Heart <sup>i</sup>	0	0	0	0	0
Kidney	0.0252	0.0504	0	0.0001	0.0002
Liver	0	0	0	0	0
Lung <sup>i</sup>	1.57	2.54	0	0.0036	0.0058
Muscle <sup>h</sup>	3.40	3.92	0.0384	0.677	0.783
Skin <sup>h</sup>	2.35	2.17	0.0853	0.215	0.200
Spleen	12.2	24.5	0	0.0096	0.0192
Thyroid <sup>i</sup>	22.9	39.7	5.50	0.0004	0.0007
Uterus	1.33	1.69	0.145	0.0004	0.0005
Stomach <sup>j</sup>	NA <sup>k</sup>	–	NA	0.0261	0.0042
Small Intestine <sup>j</sup>	NA	–	NA	0.0419	0.0073
Cecum <sup>j</sup>	NA	–	NA	0.0470	0.0149
Large Intestine <sup>j</sup>	NA	–	NA	0.0286	0.0157
Carcass <sup>j</sup>	NA	–	NA	0.168	0.224

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

Percent Dose Recovered	Mean ± SD
<b>Absorbed Dose</b>	–
Tissues	1.46 ± 0.56
Dose-Site Skin	0.991 ± 0.798
Excreta	5.12 ± 3.06
<b>Total % Dose Absorbed</b>	<b>7.58 ± 3.24</b>
<b>Unabsorbed Dose</b>	–
Gauze Wash	29.8 ± 5.5
Appliance	55.6 ± 7.5
Cover	0.410 ± 0.404
Dose-Site Rinse	0.0170 ± 0.0102
<b>Total % Dose Unabsorbed</b>	<b>85.9 ± 5.1</b>
<b>Overall % Dose Recovered</b>	<b>93.5 ± 2.0</b>

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 4) except as noted. The target dose was 20 mg AOC/kg. The actual dose delivered was 25.6 ± 0.7 mg/kg.

<sup>b</sup>CPDE = Cumulative percent dose excreted.

<sup>c</sup>Volatile organics and CO<sub>2</sub> in exhaled breath.

<sup>d</sup>The first feces collection was 0–12 hour (h).

<sup>e</sup>72-hour urine collection includes urine present in the urinary bladder at study termination.

<sup>f</sup>Radioactivity was not detected in blood; therefore tissue/blood ratios cannot be determined.

<sup>g</sup>A value of 0 ± 0% dose in total tissue indicates a mean < 0.00005% dose in total tissue.

<sup>h</sup>Percent of dose in these tissues was calculated using the following percentages of body weight: adipose 7.0%, blood

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7.4%, muscle 40.4%, and skin 19.0%.

<sup>i</sup> Data for heart, lung, and thyroid from animal B005 are not included in the results.

<sup>j</sup> Includes contents.

<sup>k</sup> NA = Not applicable.

<sup>l</sup> Carcass 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).