Recovery of Radioactivity Through 24 Hours Following Intravenous Administration of 3.5 mg/kg [^{14}C] 5-Amino-o-cresol to Female F344 Rats (Study I)[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	85.2 ± 5.3	d	0.0086 ± 0.0041	0.0656 ± 0.0253	85.3 ± 5.3
12	99.4 ± 1.3	0.175 ± 0.091	0.0171 ± 0.0079	0.121 ± 0.034	99.8 ± 1.3
24[e]	102 ± 2	1.93 ± 0.19	0.0294 ± 0.0049	0.170 ± 0.034	104 ± 2

Distribution in Tissues (24 hours)

Tissue	nmol-eq AOC per g Tissue Mean	nmol-eq AOC per g Tissue SD	TBR[f] Mean	TBR SD	% Dose in Total Tissue Mean	% Dose in Total Tissue SD
Adipose[g]	0.120	0.043	0.302	0.137	0.0378	0.0144
Urinary Bladder	0.238	0.185	0.595	0.417	0.0004	0.0003
Blood[g]	0.413	0.072	Unity	–	0.137	0.023
Brain	0.0461	0.0083	0.114	0.027	0.0021	0.0007
Heart	1.20	1.92	3.39	5.69	0.0182	0.0294
Kidney	0.432	0.045	1.06	0.13	0.0172	0.0016
Liver	0.737	0.030	1.82	0.25	0.137	0.017
Lung	0.248	0.021	0.608	0.073	0.0061	0.0005
Muscle[g]	0.0719	0.0222	0.184	0.086	0.131	0.043
Skin[g]	0.181	0.028	0.441	0.012	0.155	0.022
Spleen	0.579	0.635	1.28	1.20	0.0067	0.0076
Thyroid	1.44	1.51	3.13	2.90	0.0003	0.0003
Uterus	0.182	0.063	0.445	0.141	0.0017	0.0010
Stomach[h]	NA[i]	–	NA	–	0.0053	0.0012
Small Intestine[h]	NA	–	NA	–	0.0713	0.0121
Cecum[h]	NA	–	NA	–	0.141	0.026
Large Intestine[h]	NA	–	NA	–	0.118	0.030
Carcass[j]	NA	–	NA	–	0.0508	0.1015
Tail[k]	NA	–	NA	–	0.407	0.041

Disposition Summary – Overall Percent Dose Recovered

Percent Dose Recovered	Mean ± SD
Tissues	1.44 ± 0.11
Excreta	104 ± 2
Overall % Dose Recovered	**105 ± 2**

[a]All values expressed as mean ± standard deviation (SD) (N = 4). The target dose was 3.5 mg AOC/kg. The actual dose delivered was 2.74 ± 0.13 mg/kg.
[b]CPDE = Cumulative percent dose excreted.
[c]Volatile organics and CO_2 in exhaled breath.
[d]The first feces collection was 0−12 hours (h).
[e]24-h urine collection includes urine present in the urinary bladder at study termination.
[f]TBR = tissue/blood ratio
[g]Percent 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%.
[h]Includes contents.
[i]NA = Not applicable.
[j]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.)
[k]Tail was processed separately from the carcass.