

### Recovery of Radioactivity 72 Hours Following Single Intravenous Administration of 0.6 mg/kg [14C]Dicyclohexylcarbodiimide to Male B6C3F<sub>1</sub> Mice – Study G<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
8	13.5 ± 17.0	NC <sup>d</sup>	0.05 ± 0.03	0.28 ± 0.08	13.9 ± 17.1
24e	30.4 ± 16.1	15.9 ± 2.9	0.12 ± 0.03	0.32 ± 0.10	46.8 ± 14.7
48e	37.1 ± 13.7	21.8 ± 4.7	0.18 ± 0.06	0.37 ± 0.08	59.4 ± 13.4
72 <sup>f</sup>	49.5 ± 7.8	24.6 ± 4.9	0.24 ± 0.10	0.46 ± 0.08	74.9 ± 5.0

#### Distribution in Tissues (72 hours)

Tissue	ng-eq per g tissue Mean	ng-eq per g tissue SD	TBR <sup>g</sup> Mean	TBR SD	% Dose in Total Tissue <sup>h</sup> Mean	% Dose in Total Tissue SD
Adipose	234.0	166.0	25.8	20.2	3.72	2.64
Bladder	40.0	22.8	4.25	2.48	0.007	0.004
Blood	10.1	2.36	Unity	–	0.127	0.031
Brain	60.6	22.4	6.53	2.98	0.149	0.061
Heart	189.0	66.7	20.2	8.68	0.134	0.050
Kidney	66.4	11.6	6.95	2.15	0.175	0.027
Liver	91.8	13.4	9.39	2.07	0.609	0.058
Lung	49.6	20.2	5.20	2.27	0.047	0.020
Muscle	46.0	19.2	4.96	2.35	3.45	1.41
Skin	19.9	2.09	2.02	0.28	0.483	0.043
Spleen	26.1	4.49	2.75	0.93	0.0098	0.0027
Testes	24.9	6.06	2.65	1.00	0.032	0.009
Carcass <sup>i</sup>	NA <sup>j</sup>	–	NA	–	2.12	3.95
Tail	76.8	42.3	7.30	3.12	6.29	3.68

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 5). The target dose was 0.6 mg dicyclohexylcarbodiimide/kg body weight. The actual dose delivered was 0.58 ± 0.05 mg/kg (2.53 ± 0.25  $\mu$ Ci/animal).

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

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

<sup>d</sup>NC = not collected. No collection was scheduled for this time interval.

<sup>e</sup>Urine value includes methanol rinse of the urine flask.

<sup>f</sup>Urine value includes cage rinse.

<sup>g</sup>TBR = Tissue/Blood ratio.

<sup>h</sup>Percent Dose was calculated using the following values for the mass of total tissue, expressed as percent of body weight: adipose, 9.6%; blood, 7.6%; muscle, 45.2%; and skin, 14.4%.

<sup>i</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, muscle, and blood was subtracted from the total percent dose measured in the carcass).

<sup>j</sup>NA = not applicable