

**Recovery of Radioactivity 24 Hours Following Single Oral Administration of
 $^{51}\text{CrCl}_3$ plus Nonradiolabeled CrCl₃ (2 $\mu\text{mol}/\text{kg}$) to Male F344 Rat (Study G)^a**

Distribution in Tissues in Fasted Rats (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood ^b	0.0045 \pm 0.0057	unity	0.0169 \pm 0.0207
Forestomach ^c	0.0305 \pm 0.0165	24.9 \pm 35.6 ^d	0.0028 \pm 0.0012
Glandular Stomach ^c	0.0536 \pm 0.0347	51.2 \pm 75.4 ^d	0.0088 \pm 0.0060
Duodenum ^c	0.0245 \pm 0.0106	18.5 \pm 24.8 ^d	0.0029 \pm 0.0014
Jejunum ^c	0.0114 \pm 0.0064	10.9 \pm 15.7 ^d	0.0086 \pm 0.0050
Ileum ^c	0.0036 \pm 0.0067	0.615 \pm 0.527 ^d	0.0005 \pm 0.0009
Cecum ^c	0.0150 \pm 0.0136	17.9 \pm 25.8 ^d	0.0031 \pm 0.0027
Large Intestine ^c	0.0061 \pm 0.0071	5.14 \pm 6.53 ^d	0.0013 \pm 0.0015

Distribution in Tissues in Fed Rats (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood ^b	0.0045 \pm 0.0062	unity	0.0155 \pm 0.0213
Forestomach ^c	0.0153 \pm 0.0232	3.15 \pm 3.41	0.0012 \pm 0.0019
Glandular Stomach ^c	0.0188 \pm 0.0115	16.2 \pm 15.7	0.0031 \pm 0.0018
Duodenum ^c	0.0134 \pm 0.0020	8.41 \pm 6.61	0.0027 \pm 0.0013
Jejunum ^c	0.0039 \pm 0.0007	2.55 \pm 1.89	0.0030 \pm 0.0008
Ileum ^c	0.0010 \pm 0.0009	1.00 \pm 1.12	0.0001 \pm 0.0001
Cecum ^c	0.0375 \pm 0.0148 ^e	31.6 \pm 21.0 ^e	0.0058 \pm 0.0020 ^e
Large Intestine ^c	0.0180 \pm 0.0161 ^e	19.0 \pm 20.0 ^e	0.0037 \pm 0.0037 ^e

% Dose Recovered

Sample	Fasted	Fed
GI Tissues	0.0279 \pm 0.0134	0.0172 \pm 0.0065
Blood and GI Tissues	0.0448 \pm 0.0220	0.0326 \pm 0.0167

^aAll values expressed as mean \pm standard deviation (SD) (N = 4 for fasted rats and N = 4 for fed rats.) The target dose was 2 μmol chromium/kg. The actual dose delivered was 2.11 \pm 0.10 $\mu\text{mol}/\text{kg}$ (4.02 \pm 0.23 μCi). (N = 8).

^bPercent of dose in blood was calculated using the following percentages of body weight: blood 7.4% (International Life Sciences Institute. 1994. Physiological parameter values for PBPK models.)

^cDoes not include contents.

^dN = 3, due to no radioactivity in one animal's blood

^eN = 3, due to one sample missing