

Recovery of Radioactivity 24 Hours Following Single Oral Administration of $\text{Na}_2^{51}\text{CrO}_4$ plus Nonradiolabeled $\text{Na}_2\text{Cr}_2\text{O}_7$ (2 $\mu\text{mol/kg}$) to Male F344 Rat (Study F)^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	0.0476 ± 0.0361	unity	0.187 ± 0.143
Forestomach ^c	0.399 ± 0.335	9.12 ± 2.88	0.0305 ± 0.0284
Glandular Stomach ^c	1.14 ± 0.353	33.9 ± 18.3	0.197 ± 0.0451
Duodenum ^c	0.314 ± 0.219	9.26 ± 6.20	0.0503 ± 0.0355
Jejunum ^c	0.0312 ± 0.0134	0.924 ± 0.533	0.0239 ± 0.0119
Ileum ^c	0.0213 ± 0.0118	0.554 ± 0.206	0.0025 ± 0.0014
Cecum ^c	0.0884 ± 0.0740	2.13 ± 1.05	0.0160 ± 0.0110
Large Intestine ^c	0.0344 ± 0.0246 ^w	0.828 ± 0.477	0.0073 ± 0.0048

Distribution in Tissues in Fed Rats (24 hours)

Tissue	nmol-eq Chromium per g Tissue	Tissue/Blood Ratio	% Dose in Total Tissue
Blood ^b	0.0171 ± 0.0065	unity	0.0639 ± 0.0242
Forestomach ^c	0.661 ± 0.970	46.3 ± 73.1	0.0319 ± 0.0365
Glandular Stomach ^c	0.790 ± 0.320	50.9 ± 28.1	0.118 ± 0.0461
Duodenum ^c	0.0507 ± 0.0176	3.26 ± 1.65	0.0052 ± 0.0009
Jejunum ^c	0.0418 ± 0.0385	2.65 ± 2.90	0.0292 ± 0.0236
Ileum ^c	0.0876 ± 0.115	5.85 ± 8.72	0.0097 ± 0.0123
Cecum ^c	0.227 ± 0.115	15.0 ± 9.61	0.0359 ± 0.0151
Large Intestine ^c	0.151 ± 0.0434 ^w	9.46 ± 3.74	0.0332 ± 0.0097

% Dose Recovered

Sample	Fasted	Fed
GI Tissues	0.327 ± 0.097	0.263 ± 0.130
Blood and GI Tissues	0.514 ± 0.232	0.327 ± 0.132

^aAll values expressed as mean ± 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 1.96 ± 0.06 $\mu\text{mol/kg}$ (4.34 ± 0.27 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.

^wStatistically different between fasted and fed rats.