## Recovery of Radioactivity 24 Hours Following Single Oral Administration of $^{51}CrCl_3$ plus Nonradiolabeled $CrCl_3$ (4 µmol/kg) to Male B6C3F$_1$ Mice (Study D)[a]

### Distribution in Tissues in Fasted Mice (24 hours)

| Tissue | nmol-eq Chromium per g Tissue | Tissue/Blood Ratio | % Dose in Total Tissue |
|---|---|---|---|
| Blood[b] | 0.191 ± 0.350 | unity | 0.215 ± 0.387 |
| Forestomach[c] | 0.284 ± 0.369 | 2.51 ± 4.48 | 0.0106 ± 0.0128 |
| Glandular Stomach[c] | 0.185 ± 0.203 | 4.01 ± 5.16 | 0.0118 ± 0.0078 |
| Duodenum[c] | 0.726 ± 0.575 | 43.4 ± 81.9 | 0.0758 ± 0.0924 |
| Jejunum[c] | 0.212 ± 0.232 | 3.76 ± 4.57 | 0.0517 ± 0.0540 |
| Ileum[c] | 0.185 ± 0.295 | 1.04 ± 0.87 | 0.0102 ± 0.0137 |
| Cecum[c] | 0.182 ± 0.199 | 2.55 ± 3.16 | 0.00866 ± 0.01151 |
| Large Intestine[c] | 0.132 ± 0.191 | 1.25 ± 1.23 | 0.0104 ± 0.0132 |

### Distribution in Tissues in Fed Mice (24 hours)

| Tissue | nmol-eq Chromium per g Tissue | Tissue/Blood Ratio | % Dose in Total Tissue |
|---|---|---|---|
| Blood[b] | 0.293 ± 0.532 | unity | 0.361 ± 0.658 |
| Forestomach[c] | 0.234 ± 0.240 | 1.06 ± 1.68 | 0.00857 ± 0.00598 |
| Glandular Stomach[c] | 0.180 ± 0.195 | 0.610 ± 0.855 | 0.0138 ± 0.0141 |
| Duodenum[c] | 0.0317 ± 0.0148[d] | 0.296 ± 0.471[d] | 0.00275 ± 0.00261[d] |
| Jejunum[c] | 0.193 ± 0.262 | 0.319 ± 0.286 | 0.0246 ± 0.0240 |
| Ileum[c] | 0.120 ± 0.197 | 0.255 ± 0.293 | 0.0124 ± 0.0220 |
| Cecum[c] | 0.192 ± 0.105[d] | 0.765 ± 0.943[d] | 0.0123 ± 0.0135[d] |
| Large Intestine[c] | 0.146 ± 0.225 | 0.276 ± 0.289 | 0.00856 ± 0.01011 |

### % Dose Recovered

| Sample | Fasted | Fed |
|---|---|---|
| GI Tissues | 0.185 ± 0.133 | 0.0784 ± 0.0840 |
| Blood and GI Tissues | 0.412 ± 0.516 | 0.439 ± 0.741 |

[a]All values expressed as mean ± standard deviation (SD) (N = 4 for fasted mice and N = 4 for fed mice.) The target dose was 4 µmol chromium/kg. The actual dose delivered was 4.08 ± 0.04 µmol/kg (5.43 ± 0.30 µCi). (N = 8).
[b]Percent of dose in blood was calculated using the following percentages of body weight: blood 4.9% (International Life Sciences Institute. 1994. Physiological parameter values for PBPK models.)
[c]Does not include contents.
[d]N = 3 due to one missing sample.