

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of 15 mg/kg  
[<sup>14</sup>C]2-Methoxy-4-Nitroaniline to Female Harlan Sprague Dawley Rats – Group 13**

Percent of Dose Recovered in Excreta

| Sample       | Collection Interval (h) | 13-01       | 13-02       | 13-03       | 13-04       | Mean        | SD          |
|--------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Urine        | 0 to 4                  | 32.2        | 40.3        | 30.5        | 30.2        | 33.3        | 4.75        |
| Urine        | 4 to 8                  | 16.3        | 6.54        | 11.2        | 11.8        | 11.5        | 3.99        |
| Urine        | 8 to 12                 | 13.2        | 2.86        | 9.16        | 8.08        | 8.32        | 4.26        |
| Urine        | 12 to 24                | 8.93        | 17.7        | 12          | 11.3        | 12.5        | 3.72        |
| Urine        | 24 to 48                | 2.04        | 6.23        | 7.63        | 8.79        | 6.17        | 2.95        |
| Urine        | 48 to 72 <sup>a</sup>   | 1.29        | 1.81        | 0.89        | 2.88        | 1.72        | 0.86        |
| Cage Rinse   | 0 to 72                 | 1.54        | 3.25        | 9.31        | 6.02        | 5.03        | 3.4         |
| -            | <b>Subtotal</b>         | <b>75.5</b> | <b>78.7</b> | <b>80.7</b> | <b>79.1</b> | <b>78.5</b> | <b>2.2</b>  |
| Feces        | 0 to 24                 | 4.79        | 3.39        | 7.33        | 8.51        | 6.01        | 2.33        |
| Feces        | 24 to 48                | 2.86        | 2.29        | 2.6         | 0.71        | 2.11        | 0.97        |
| Feces        | 48 to 72                | 1.22        | 0.22        | 0.15        | 0.12        | 0.52        | 0.61        |
| -            | <b>Subtotal</b>         | <b>8.87</b> | <b>5.90</b> | <b>9.93</b> | <b>9.34</b> | <b>8.51</b> | <b>1.79</b> |
| <b>Total</b> | <b>-</b>                | <b>84.4</b> | <b>84.6</b> | <b>90.6</b> | <b>88.4</b> | <b>87.0</b> | <b>3.02</b> |

Distribution in Tissues (72 h)

| Tissue                         | ng-eq/g Mean | ng-eq/g SD | TBR Mean | TBR SD   | Percent Recovery Mean | Percent Recovery SD |
|--------------------------------|--------------|------------|----------|----------|-----------------------|---------------------|
| Adipose Perirenal <sup>b</sup> | 24.6         | 6.0        | 0.148    | 0.033    | 0.011                 | 0.002               |
| Muscle (hind leg) <sup>b</sup> | 25.4         | 3.47       | 0.153    | 0.022    | 0.068                 | 0.011               |
| Skin (abdominal) <sup>b</sup>  | 61.1         | 17.7       | 0.368    | 0.109    | 0.077                 | 0.023               |
| Blood <sup>b</sup>             | 166          | 5.32       | Unity    | -        | 0.081                 | 0.002               |
| Plasma <sup>b</sup>            | 13.2         | 4.74       | 0.078    | 0.027    | 0.004                 | 0.001               |
| Spleen                         | 72.8         | 12.5       | 0.437    | 0.062    | 0.001                 | 0.001               |
| Liver                          | 236          | 47.4       | 1.43     | 0.308    | 0.063                 | 0.014               |
| Kidney                         | 125          | 6.42       | 0.755    | 0.043    | 0.006                 | 0.001               |
| Brain                          | 19.9         | 3.92       | 0.119    | 0.023    | 0.001                 | 0.001               |
| Heart                          | 58.8         | 5.04       | 0.354    | 0.03     | 0.002                 | 0.000               |
| Lung                           | 166          | 25.1       | 1.000    | 0.174    | 0.009                 | 0.001               |
| Pancreas                       | 28.4         | 0.67       | 0.171    | 0.004    | 0.001                 | 0.000               |
| <b>Total</b>                   | <b>-</b>     | <b>-</b>   | <b>-</b> | <b>-</b> | <b>0.321</b>          | <b>0.022</b>        |

Disposition Summary – Percent of Dose Recovered

| Sample             | 13-01       | 13-02       | 13-03       | 13-04       | Mean        | SD         |
|--------------------|-------------|-------------|-------------|-------------|-------------|------------|
| Urine <sup>c</sup> | 75.5        | 78.7        | 80.7        | 79.1        | 78.5        | 2.2        |
| Feces              | 8.87        | 9.93        | 9.34        | 5.9         | 8.51        | 1.79       |
| Tissues            | 0.298       | 0.324       | 0.311       | 0.35        | 0.32        | 0.02       |
| <b>Total</b>       | <b>84.7</b> | <b>91.0</b> | <b>88.8</b> | <b>84.9</b> | <b>87.3</b> | <b>3.1</b> |

<sup>a</sup> Includes urine present in bladder at time of sacrifice.

<sup>b</sup> Tissue weights for dispersed tissues were calculated based on body weight as follows: adipose 7.0%, muscle 40.4%, skin 19%, blood 7.4%, and plasma 4.3%. ILSI (1994). *Physiological Parameter Values for PBPK Models*. International Life Sciences Institute.

<sup>c</sup> Includes Cage Rinse