

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of 5 mg/kg  
[<sup>14</sup>C]Hydroquinone to Female HSD Rats – Group 12**

Percent of Dose Recovered in Excreta

| Sample                    | Collection Interval (h) | 12_01       | 12_02       | 12_03       | 12_04       | Mean        | SD          |
|---------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Urine                     | 0 to 8                  | 48.8        | 44.0        | 45.3        | 48.0        | 46.5        | 2.25        |
| Urine                     | 8 to 24                 | 5.38        | 6.57        | 5.93        | 3.87        | 5.44        | 1.15        |
| Urine                     | 24 to 48                | 0.91        | 0.90        | 1.10        | 1.49        | 1.10        | 0.28        |
| Urine                     | 48 to 72 <sup>a</sup>   | 0.24        | 0.29        | 0.27        | 0.33        | 0.28        | 0.04        |
| -                         | <b>Subtotal</b>         | <b>55.3</b> | <b>51.8</b> | <b>52.6</b> | <b>53.7</b> | <b>53.3</b> | <b>1.54</b> |
| Cage Rinse                | 0 to 8                  | 34.9        | 39.8        | 38.7        | 33.2        | 36.7        | 3.11        |
| Cage Rinse                | 8 to 24                 | 1.47        | 1.64        | 2.00        | 3.09        | 2.05        | 0.73        |
| Cage Rinse                | 24 to 48                | 0.47        | 0.29        | 0.15        | 0.62        | 0.38        | 0.21        |
| Cage Rinse                | 48 to 72                | 0.53        | 0.16        | 0.12        | 0.72        | 0.38        | 0.29        |
| -                         | <b>Subtotal</b>         | <b>37.4</b> | <b>41.9</b> | <b>41.0</b> | <b>37.6</b> | <b>39.5</b> | <b>2.30</b> |
| <b>Urine + Cage Rinse</b> | <b>Subtotal</b>         | <b>92.7</b> | <b>93.7</b> | <b>93.6</b> | <b>91.3</b> | <b>92.8</b> | <b>1.08</b> |
| Feces                     | 0 to 24                 | 0.94        | 1.20        | 0.82        | 3.03        | <b>1.50</b> | <b>1.03</b> |
| Feces                     | 24 to 48                | 0.25        | 0.24        | 0.26        | 0.57        | <b>0.33</b> | <b>0.16</b> |
| Feces                     | 48 to 72                | 0.07        | 0.07        | 0.05        | 0.30        | <b>0.12</b> | <b>0.12</b> |
| -                         | <b>Subtotal</b>         | <b>1.26</b> | <b>1.51</b> | <b>1.13</b> | <b>3.90</b> | <b>1.95</b> | <b>1.31</b> |
| <b>Total</b>              | <b>-</b>                | <b>94.0</b> | <b>95.2</b> | <b>94.7</b> | <b>95.2</b> | <b>94.8</b> | <b>0.58</b> |

Distribution in Tissues (72 h)

| Tissue <sup>b</sup>         | ng-eq/g Mean | ng-eq/g SD | TBR Mean | TBR SD   | Percent Recovery Mean | Percent Recovery SD |
|-----------------------------|--------------|------------|----------|----------|-----------------------|---------------------|
| Adipose Perirenal           | 82.2         | 26.8       | 0.73     | 0.2      | 0.111                 | 0.0354              |
| Bladder                     | 44.8         | 6.1        | 0.406    | 0.065    | 0.0002                | <0.0001             |
| Muscle (hind leg)           | 21.4         | 1          | 0.193    | 0.016    | 0.168                 | 0.0101              |
| Skin (abdominal)            | 42.7         | 4.9        | 0.388    | 0.069    | 0.158                 | 0.017               |
| Blood                       | 111          | 7.9        | 1        | 0        | 0.16                  | 0.0111              |
| Plasma                      | 67.2         | 3.3        | 0.606    | 0.03     | 0.0008                | 0.0001              |
| Spleen                      | 102          | 5.3        | 0.925    | 0.112    | 0.0055                | 0.0003              |
| Liver                       | 143          | 26.7       | 1.3      | 0.304    | 0.0955                | 0.0145              |
| Kidney                      | 178          | 20.8       | 1.62     | 0.307    | 0.0268                | 0.0027              |
| Brain                       | 134          | 14.3       | 1.21     | 0.172    | 0.0227                | 0.0019              |
| Heart                       | 34.2         | 4.2        | 0.307    | 0.024    | 0.0029                | 0.0004              |
| Lung                        | 82.8         | 4.4        | 0.746    | 0.042    | 0.0098                | 0.0007              |
| Stomach                     | 48.9         | 3.8        | 0.443    | 0.068    | 0.0057                | 0.0003              |
| Cecum                       | 47.2         | 13.4       | 0.424    | 0.115    | 0.0022                | 0.0006              |
| Large Intestine             | 63.4         | 4.9        | 0.572    | 0.059    | 0.0084                | 0.0008              |
| Small Intestine             | 40.5         | 4.5        | 0.364    | 0.025    | 0.0132                | 0.0013              |
| Thyroid                     | 193          | 57.4       | 1.72     | 0.464    | 0.0001                | <0.0001             |
| Ovaries                     | 106          | 21.2       | 0.962    | 0.203    | 0.0022                | 0.0026              |
| Pancreas                    | 104          | 17.4       | 0.945    | 0.189    | 0.0124                | 0.0008              |
| Uterus with Fallopian Tubes | 89.9         | 23         | 0.809    | 0.204    | 0.0028                | 0.0011              |
| Femur                       | 24.3         | 1.2        | 0.22     | 0.025    | 0.0008                | <0.0001             |
| Marrow                      | 43.3         | 7.6        | 0.389    | 0.061    | <0.0001               | <0.0001             |
| <b>Total</b>                | <b>-</b>     | <b>-</b>   | <b>-</b> | <b>-</b> | <b>0.809</b>          | <b>0.031</b>        |

**Distribution of Radioactivity 72 Hours Following Intravenous Administration of 5 mg/kg  
[<sup>14</sup>C]Hydroquinone to Female HSD Rats – Group 12**

Disposition Summary – Percent of Dose Recovered

| <b>Sample</b>         | <b>12_01</b> | <b>12_02</b> | <b>12_03</b> | <b>12_04</b> | <b>Mean</b> | <b>SD</b>  |
|-----------------------|--------------|--------------|--------------|--------------|-------------|------------|
| Urine <sup>a, c</sup> | 92.7         | 93.7         | 93.6         | 91.3         | 92.8        | 1.08       |
| Feces                 | 1.26         | 1.51         | 1.13         | 3.90         | 1.95        | 1.31       |
| Tissues               | 0.778        | 0.804        | 0.801        | 0.852        | 0.809       | 0.031      |
| GI Tract Contents     | 0.02         | 0.02         | 0.02         | 0.02         | 0.02        | 0.00       |
| <b>Total</b>          | <b>94.8</b>  | <b>96.0</b>  | <b>95.6</b>  | <b>96.1</b>  | <b>95.6</b> | <b>0.6</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%, and blood 7.4%.

<sup>c</sup> Includes cage rinse.

SD = standard deviation.

TBR = Tissue to blood ratio.