

**Distribution of Radioactivity 72 Hours Following Gavage Administration of  
150 mg/kg [<sup>14</sup>C]Bisphenol S to Female Harlan Sprague Dawley Rats – Group 6**

Percent of Dose Recovered in Excreta

| Sample                    | Collection Interval (h) | 6_01        | 6_02        | 6_03        | 6_04        | Mean        | SD          |
|---------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Urine                     | 0 to 8                  | 7.27        | 8.86        | 3.54        | 9.95        | 7.41        | 2.80        |
| Urine                     | 8 to 24                 | 16.2        | 20.5        | 20.7        | 16.6        | 18.5        | 2.43        |
| Urine                     | 24 to 48                | 12.0        | 16.3        | 16.9        | 20.2        | 16.4        | 3.37        |
| Urine                     | 48 to 72 <sup>a</sup>   | 6.19        | 7.56        | 7.15        | 11.30       | 8.05        | 2.24        |
| -                         | <b>Subtotal</b>         | <b>41.7</b> | <b>53.2</b> | <b>48.3</b> | <b>58.1</b> | <b>50.3</b> | <b>7.01</b> |
| Cage Rinse                | 0 to 8                  | 6.30        | 6.62        | 8.33        | 8.49        | 7.44        | 1.14        |
| Cage Rinse                | 8 to 24                 | 7.19        | 4.85        | 6.87        | 1.83        | 5.18        | 2.46        |
| Cage Rinse                | 24 to 48                | 3.73        | 2.75        | 7.03        | 1.90        | 3.85        | 2.25        |
| Cage Rinse                | 48 to 72                | 1.88        | 1.80        | 4.74        | 1.28        | 2.42        | 1.57        |
| -                         | <b>Subtotal</b>         | <b>19.1</b> | <b>16.0</b> | <b>27.0</b> | <b>13.5</b> | <b>18.9</b> | <b>5.85</b> |
| <b>Urine + Cage Rinse</b> | <b>Subtotal</b>         | <b>60.8</b> | <b>69.2</b> | <b>75.3</b> | <b>71.6</b> | <b>69.2</b> | <b>6.15</b> |
| Feces                     | 0 to 24                 | 8.05        | 0.63        | 0.94        | 1.11        | 2.7         | 3.58        |
| Feces                     | 24 to 48                | 10.4        | 8.08        | 7.37        | 4.51        | 7.59        | 2.43        |
| Feces                     | 48 to 72                | 5.75        | 7.95        | 3.19        | 6.87        | 5.94        | 2.04        |
| -                         | <b>Subtotal</b>         | <b>24.2</b> | <b>16.7</b> | <b>11.5</b> | <b>12.5</b> | <b>16.2</b> | <b>5.78</b> |
| <b>Total</b>              | <b>-</b>                | <b>85.0</b> | <b>85.9</b> | <b>86.8</b> | <b>84.0</b> | <b>85.4</b> | <b>1.18</b> |

Distribution in Tissues (24 h)

| Tissue <sup>b</sup>       | ng-eq/g Mean      | ng-eq/g SD | TBR Mean | TBR SD   | Percent Recovery Mean | Percent Recovery SD |
|---------------------------|-------------------|------------|----------|----------|-----------------------|---------------------|
| Bladder                   | 544               | 397        | 0.991    | 0.099    | <0.000                | -                   |
| Muscle                    | 83.1              | 58.6       | 0.159    | 0.033    | 0.022                 | 0.016               |
| Blood                     | 572               | 431        | 1        | 0        | 0.029                 | 0.022               |
| Plasma                    | 939               | 802        | 1.45     | 0.425    | 0.027                 | 0.024               |
| Spleen                    | 224               | 255        | 0.348    | 0.133    | <0.000                | 0.001               |
| Pancreas                  | 1050              | 1270       | 1.64     | 0.776    | 0.006                 | 0.007               |
| Kidney                    | 1220              | 859        | 2.42     | 0.755    | 0.006                 | 0.005               |
| Brain                     | BLOQ <sup>c</sup> | -          | BLOQ     | -        | <0.000                | -                   |
| Heart                     | 251               | 201        | 0.44     | 0.04     | 0.001                 | 0.001               |
| Lung                      | 499               | 369        | 0.886    | 0.11     | 0.002                 | 0.002               |
| Stomach                   | 2390              | 1860       | 4.05     | 1.13     | 0.01                  | 0.007               |
| Cecum                     | 17200             | 8040       | 41.3     | 22.3     | 0.031                 | 0.015               |
| Large Intestine           | 4610              | 4150       | 10.9     | 9.37     | 0.023                 | 0.023               |
| Small Intestine           | 20000             | 11000      | 38.3     | 14.2     | 0.243                 | 0.135               |
| Thyroid                   | BLOQ              | -          | BLOQ     | -        | <0.000                | -                   |
| Ovaries                   | 1170              | 1930       | 1.43     | 1.45     | 0.001                 | 0.001               |
| Adipose                   | 1080              | 1960       | 1.18     | 1.57     | 0.051                 | 0.093               |
| Skin                      | 389               | 301        | 0.698    | 0.087    | 0.05                  | 0.04                |
| Liver                     | 2000              | 1220       | 3.8      | 0.734    | 0.048                 | 0.029               |
| Uterus w/ Fallopian Tubes | 809               | 649        | 1.72     | 0.976    | 0.002                 | 0.002               |
| <b>Total</b>              | <b>-</b>          | <b>-</b>   | <b>-</b> | <b>-</b> | <b>0.55</b>           | <b>0.36</b>         |

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Disposition Summary – Percent of Dose Recovered

| <b>Sample</b>         | <b>6_01</b> | <b>6_02</b> | <b>6_03</b> | <b>6_04</b> | <b>Mean</b> | <b>SD</b>   |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Urine <sup>a, d</sup> | 60.8        | 69.2        | 75.3        | 71.6        | 69.2        | 6.15        |
| Feces                 | 24.2        | 16.7        | 11.5        | 12.5        | 16.2        | 5.78        |
| Tissues               | 0.58        | 0.51        | 0.11        | 1.00        | 0.55        | 0.36        |
| GI Tract Contents     | 2.14        | 1.91        | 0.43        | 3.12        | 1.9         | 1.11        |
| GI Tract Rinse        | 0.08        | 0.07        | 0.01        | 0.09        | 0.06        | 0.04        |
| <b>Total</b>          | <b>87.8</b> | <b>88.4</b> | <b>87.3</b> | <b>88.2</b> | <b>87.9</b> | <b>0.49</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> BLOQ: Concentration was below the limit of detection (aliquot DPM < 3 x background DPM) for 3 or more rats; when concentration is BLOQ, TBR is set to BLOQ.

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

SD = standard deviation.

TBR = Tissue to blood ratio.