Table 1. Female Percent Metabolic Efficiency (g/g)

| | Treatment | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vehicle | | | BPA 2.5 (µg/kg) | | | BPA 8 (µg/kg) | | | BPA 25 (µg/kg) | | | BPA 80 (µg/kg) | | | BPA 260 (µg/kg) | | | BPA 840 (µg/kg) | | | BPA 2700 (µg/kg) | |
| Week | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. |
| 4 | 20 | 39.7 | 0.8 | 23 | 39.3 | 0.9 | 18 | 38.9 | 1.1 | 21 | 38.2 | 0.7 | 20 | 38.1 | 0.8 | 21 | 38.6 | 0.4 | 20 | 38.0 | 0.6 | 20 | 38.0 | 0.7 |
| 5 | 20 | 36.5 | 0.6 | 23 | 35.7 | 1.0 | 18 | 37.8 | 0.9 | 21 | 34.8 | 0.6 | 20 | 35.2 | 0.9 | 21 | 36.8 | 0.5 | 20 | 35.2 | 0.5 | 20 | 36.3 | 0.6 |
| 6 | 20 | 28.2 | 0.6 | 23 | 27.0 | 0.8 | 18 | 27.0 | 1.1 | 21 | 27.2 | 0.7 | 20 | 27.5 | 0.9 | 21 | 27.5 | 0.6 | 20 | 27.4 | 0.5 | 20 | 27.4 | 0.4 |
| 7 | 20 | 22.3 | 0.5 | 23 | 21.9 | 0.6 | 18 | 21.5 | 0.5 | 21 | 21.8 | 0.6 | 20 | 21.1 | 0.4 | 21 | 20.5 | 0.7 | 20 | 21.6 | 0.5 | 20 | 19.7 | 0.8 |
| 8 | 20 | 20.8 | 0.5 | 23 | 19.4 | 0.7 | 18 | 19.8 | 0.7 | 21 | 18.9 | 0.4 | 20 | 19.7 | 0.4 | 21 | 19.3 | 0.4 | 20 | 19.3 | 0.5 | 20 | 18.9 | 0.6 |
| 9 | 20 | 14.6 | 1.1 | 23 | 15.7 | 0.4 | 18 | 16.2 | 0.5 | 21 | 15.2 | 0.5 | 20 | 16.0 | 0.4 | 21 | 15.7 | 0.5 | 20 | 15.9 | 0.4 | 20 | 14.7 | 0.4 |
| 10 | 20 | 14.4 | 0.7 | 23 | 12.5 | 0.5 | 18 | 13.5 | 0.7 | 21 | 12.7 | 0.3 | 20 | 13.3 | 0.4 | 21 | 12.0 | 0.6 | 20 | 13.9 | 0.5 | 20 | 11.5 | 0.8 |
| 11 | 20 | 10.9 | 0.9 | 23 | 10.4 | 0.5 | 18 | 10.5 | 0.6 | 21 | 10.2 | 0.5 | 20 | 10.2 | 0.5 | 21 | 12.3 | 1.0 | 20 | 11.9 | 1.0 | 20 | 11.3 | 0.7 |
| 12 | 20 | 9.3 | 1.0 | 23 | 7.2 | 0.5 | 18 | 8.7 | 1.2 | 21 | 8.8 | 0.9 | 20 | 6.4 | 0.5 | 20 | 8.5 | 0.7 | 20 | 7.9 | 1.0 | 20 | 8.6 | 0.7 |
| 13 | 7 | 8.0 | 1.3 | 14 | 7.6 | 0.8 | 4 | 3.9 | 1.0 | 9 | 8.7 | 1.1 | 8 | 7.7 | 1.0 | 10 | 5.3 | 2.5 | 11 | 7.6 | 1.7 | 11 | 8.9 | 1.0 |

Table 1. Female Percent Metabolic Efficiency (g/g)

| | Treatment | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BPA 100,000 (µg/kg) | | | BPA 300,000 (µg/kg) | | | $EE_2$ 0.5 (µg/kg) | | | $EE_2$ 5.0 (µg/kg) | | | Naïve Control | | |
| Week | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. |
| 4 | 21 | 39.6 | 1.4 | 19 | 38.1 | 1.1 | 20 | 40.1 | 0.8 | 20 | 40.7 | 0.5 | 20 | 38.8 | 0.5 |
| 5 | 21 | 36.2 | 0.5 | 19 | 36.0 | 0.9 | 20 | 38.9 | 0.6 | 20 | 38.8 | 0.6 | 20 | 35.2 | 0.6 |
| 6 | 21 | 27.6 | 0.8 | 19 | 28.2 | 1.0 | 20 | 29.6 | 0.7 | 20 | 31.3 | 0.6 | 20 | 27.1 | 0.7 |
| 7 | 21 | 21.6 | 0.8 | 19 | 22.0 | 0.6 | 20 | 22.6 | 0.8 | 20 | 25.4 | 0.6 | 20 | 20.0 | 0.5 |
| 8 | 21 | 18.2 | 0.5 | 19 | 17.8 | 0.7 | 20 | 18.5 | 0.8 | 20 | 21.2 | 0.8 | 20 | 18.4 | 0.6 |
| 9 | 21 | 15.1 | 0.8 | 19 | 15.2 | 0.5 | 20 | 14.7 | 0.7 | 20 | 17.4 | 0.6 | 20 | 14.8 | 0.7 |
| 10 | 21 | 11.7 | 1.1 | 19 | 11.7 | 0.7 | 20 | 12.0 | 0.7 | 20 | 14.7 | 0.5 | 20 | 12.5 | 0.5 |
| 11 | 20 | 8.6 | 0.4 | 19 | 7.7 | 0.8 | 20 | 7.3 | 0.7 | 20 | 10.7 | 0.6 | 20 | 10.5 | 0.7 |
| 12 | 20 | 6.0 | 0.9 | 19 | 4.6 | 0.8 | 20 | 5.6 | 0.7 | 20 | 7.6 | 0.7 | 19 | 8.0 | 0.8 |
| 13 | 5 | 6.3 | 0.5 | 6 | 3.7 | 1.8 | 5 | 4.1 | 2.2 | 5 | 7.2 | 1.1 | 9 | 4.8 | 3.3 |

Table 2. Male Percent Metabolic Efficiency (g/g)

| | Treatment | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Vehicle | | | BPA 2.5 (µg/kg) | | | BPA 8 (µg/kg) | | | BPA 25 (µg/kg) | | | BPA 80 (µg/kg) | | | BPA 260 (µg/kg) | | | BPA 840 (µg/kg) | | | BPA 2700 (µg/kg) | | |
| Week | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. |
| 4 | 20 | 40.5 | 1.1 | 22 | 41.6 | 0.8 | 18 | 41.7 | 0.9 | 21 | 40.0 | 0.5 | 20 | 42.0 | 1.2 | 20 | 40.9 | 1.0 | 20 | 40.4 | 0.6 | 19 | 39.7 | 0.6 |
| 5 | 20 | 39.5 | 0.8 | 23 | 39.9 | 0.6 | 18 | 39.9 | 0.7 | 21 | 38.3 | 0.5 | 20 | 39.8 | 0.9 | 20 | 38.7 | 0.7 | 20 | 39.8 | 0.3 | 20 | 38.6 | 0.6 |
| 6 | 20 | 36.3 | 0.7 | 23 | 36.0 | 0.6 | 18 | 36.7 | 0.5 | 21 | 35.5 | 0.4 | 20 | 36.0 | 0.5 | 20 | 35.0 | 0.6 | 21 | 35.9 | 0.4 | 20 | 35.1 | 0.5 |
| 7 | 20 | 33.9 | 0.7 | 23 | 33.1 | 0.6 | 18 | 33.1 | 0.4 | 21 | 33.2 | 0.5 | 20 | 33.4 | 0.3 | 20 | 32.3 | 0.4 | 21 | 31.3 | 1.3 | 20 | 32.2 | 0.5 |
| 8 | 20 | 30.0 | 0.6 | 23 | 29.8 | 0.5 | 18 | 29.9 | 0.5 | 21 | 30.0 | 0.4 | 20 | 29.9 | 0.4 | 20 | 28.6 | 0.6 | 20 | 29.4 | 0.3 | 20 | 29.4 | 0.4 |
| 9 | 20 | 24.2 | 0.6 | 23 | 23.7 | 0.5 | 18 | 23.6 | 0.5 | 21 | 24.3 | 0.4 | 20 | 23.9 | 0.4 | 20 | 23.3 | 0.3 | 20 | 23.6 | 0.5 | 20 | 23.7 | 0.5 |
| 10 | 20 | 19.9 | 0.4 | 23 | 19.9 | 0.4 | 18 | 19.5 | 0.5 | 21 | 20.7 | 0.4 | 20 | 20.2 | 0.3 | 20 | 20.2 | 0.3 | 20 | 19.4 | 0.6 | 20 | 20.0 | 0.6 |
| 11 | 20 | 15.1 | 0.4 | 23 | 16.1 | 0.3 | 18 | 16.8 | 0.4 | 21 | 16.6 | 0.3 | 20 | 16.1 | 0.4 | 20 | 17.0 | 0.3 | 20 | 16.4 | 0.5 | 20 | 16.0 | 0.5 |
| 12 | 20 | 12.2 | 0.6 | 23 | 12.5 | 0.4 | 18 | 13.4 | 0.5 | 21 | 12.4 | 0.5 | 20 | 13.0 | 0.6 | 20 | 13.1 | 0.5 | 20 | 12.9 | 0.5 | 20 | 13.2 | 0.4 |
| 13 | 12 | 12.5 | 0.7 | 13 | 11.8 | 0.5 | 7 | 12.2 | 0.6 | 8 | 13.5 | 0.5 | 11 | 12.7 | 1.4 | 9 | 12.7 | 0.7 | 11 | 12.6 | 0.8 | 14 | 13.3 | 0.5 |

Table 2. Male Percent Metabolic Efficiency (g/g)

| | Treatment | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BPA 100,000 (µg/kg) | | | BPA 300,000 (µg/kg) | | | $EE_2$ 0.5 (µg/kg) | | | $EE_2$ 5.0 (µg/kg) | | | Naïve Control | | |
| Week | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. | N | Mean | S.E. |
| 4 | 23 | 41.9 | 0.7 | 18 | 39.3 | 0.8 | 20 | 41.1 | 0.8 | 20 | 42.7 | 0.8 | 20 | 41.3 | 0.8 |
| 5 | 23 | 39.4 | 0.8 | 18 | 36.2 | 0.6 | 20 | 39.3 | 0.6 | 20 | 39.5 | 0.9 | 20 | 40.1 | 0.6 |
| 6 | 23 | 34.4 | 0.9 | 18 | 33.1 | 0.5 | 20 | 35.8 | 0.7 | 20 | 34.4 | 0.6 | 20 | 36.0 | 0.5 |
| 7 | 23 | 30.9 | 1.1 | 18 | 31.4 | 0.5 | 20 | 32.8 | 0.8 | 20 | 30.7 | 0.4 | 20 | 32.5 | 0.4 |
| 8 | 23 | 27.4 | 1.7 | 18 | 28.8 | 0.6 | 20 | 29.0 | 0.5 | 20 | 28.5 | 0.3 | 20 | 29.7 | 0.6 |
| 9 | 22 | 24.8 | 0.9 | 18 | 23.8 | 0.8 | 20 | 22.9 | 0.5 | 20 | 24.0 | 0.4 | 20 | 23.3 | 0.7 |
| 10 | 22 | 19.6 | 0.6 | 18 | 19.0 | 0.8 | 20 | 19.5 | 0.3 | 20 | 20.3 | 0.4 | 20 | 20.8 | 0.4 |
| 11 | 20 | 15.6 | 0.4 | 18 | 14.9 | 0.6 | 20 | 15.8 | 0.4 | 20 | 16.4 | 0.6 | 20 | 17.1 | 0.7 |
| 12 | 20 | 11.8 | 0.6 | 18 | 10.9 | 0.6 | 20 | 12.5 | 0.5 | 20 | 11.9 | 0.7 | 20 | 15.4 | 1.3 |
| 13 | 8 | 12.8 | 0.9 | 6 | 11.9 | 1.2 | 10 | 11.8 | 1.1 | 6 | 12.8 | 1.1 | 10 | 13.5 | 0.4 |

Table 3. ANOVA Results for Percent Metabolic efficiency

| Sex | Effect | NumDF | DenDF | FValue | ProbF |
|---|---|---|---|---|---|
| F | Group | 12 | 250 | 4.520 | 0.000 |
| | Week | 9 | 2087 | 1869.004 | 0.000 |
| | Group*Week | 108 | 2087 | 1.829 | 0.000 |
| M | Group | 12 | 251 | 2.688 | 0.002 |
| | Week | 9 | 2103 | 1910.189 | 0.000 |
| | Group*Week | 108 | 2103 | 1.247 | 0.047 |

Table 4. Comparison of Least Square Mean Percent Metabolic Efficiency Across Dose Groups for Females

| | Vehicle | | | BPA 2.5 (µg/kg) | | | BPA 8 (µg/kg) | | | BPA 25 (µg/kg) | | | BPA 80 (µg/kg) | | | BPA 260 (µg/kg) | | | BPA 840 (µg/kg) | | | BPA 2700 (µg/kg) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val |
| 4-13 | 20.5 | 0.3 | 0.537 | 19.7 | 0.3 | 0.244 | 19.7 | 0.4 | 0.438 | 19.6 | 0.3 | 0.203 | 19.5 | 0.3 | 0.146 | 19.6 | 0.3 | 0.250 | 19.9 | 0.3 | 0.547 | 19.6 | 0.3 | 0.181 |
| 4 | 39.7 | 0.8 | 0.284 | 39.3 | 0.8 | 0.999 | 38.9 | 0.9 | 0.984 | 38.2 | 0.8 | 0.651 | 38.1 | 0.8 | 0.625 | 38.6 | 0.8 | 0.880 | 38.0 | 0.8 | 0.518 | 38.0 | 0.8 | 0.534 |
| 5 | 36.5 | 0.7 | 0.938 | 35.7 | 0.7 | 0.967 | 37.8 | 0.7 | 0.637 | 34.8 | 0.7 | 0.409 | 35.2 | 0.7 | 0.694 | 36.8 | 0.7 | 0.999 | 35.2 | 0.7 | 0.676 | 36.3 | 0.7 | 1.000 |
| 6 | 28.2 | 0.7 | 0.999 | 27.0 | 0.7 | 0.729 | 27.0 | 0.8 | 0.757 | 27.2 | 0.7 | 0.825 | 27.5 | 0.7 | 0.965 | 27.5 | 0.7 | 0.973 | 27.4 | 0.7 | 0.935 | 27.4 | 0.7 | 0.944 |
| 7 | 22.3 | 0.6 | 0.006 | 21.9 | 0.6 | 0.997 | 21.5 | 0.7 | 0.896 | 21.8 | 0.6 | 0.992 | 21.1 | 0.6 | 0.645 | 20.5 | 0.6 | 0.200 | 21.6 | 0.6 | 0.963 | 19.7 | 0.6 | 0.020 |
| 8 | 20.8 | 0.6 | 0.225 | 19.4 | 0.6 | 0.408 | 19.8 | 0.6 | 0.814 | 18.9 | 0.6 | 0.118 | 19.7 | 0.6 | 0.706 | 19.3 | 0.6 | 0.340 | 19.3 | 0.6 | 0.341 | 18.9 | 0.6 | 0.154 |
| 9 | 14.6 | 0.6 | 0.234 | 15.7 | 0.6 | 0.652 | 16.2 | 0.7 | 0.355 | 15.2 | 0.6 | 0.970 | 16.0 | 0.6 | 0.409 | 15.7 | 0.6 | 0.706 | 15.9 | 0.6 | 0.486 | 14.7 | 0.6 | 1.000 |
| 10 | 14.4 | 0.6 | 0.034 | 12.5 | 0.6 | 0.179 | 13.5 | 0.7 | 0.882 | 12.7 | 0.6 | 0.312 | 13.3 | 0.6 | 0.743 | 12.0 | 0.6 | 0.052 | 13.9 | 0.6 | 0.995 | 11.5 | 0.6 | 0.011 |
| 11 | 10.9 | 0.7 | 0.284 | 10.4 | 0.7 | 0.999 | 10.5 | 0.7 | 1.000 | 10.2 | 0.7 | 0.972 | 10.2 | 0.7 | 0.976 | 12.3 | 0.7 | 0.493 | 11.9 | 0.7 | 0.827 | 11.3 | 0.7 | 0.999 |
| 12 | 9.3 | 0.8 | 0.622 | 7.2 | 0.7 | 0.239 | 8.7 | 0.8 | 0.993 | 8.8 | 0.8 | 0.997 | 6.4 | 0.8 | 0.060 | 8.4 | 0.8 | 0.953 | 7.9 | 0.8 | 0.714 | 8.6 | 0.8 | 0.988 |
| 13 | 8.6 | 1.9 | 0.149 | 7.5 | 1.3 | 0.995 | 3.3 | 2.5 | 0.346 | 8.2 | 1.7 | 1.000 | 7.4 | 1.8 | 0.997 | 5.2 | 1.6 | 0.569 | 7.5 | 1.5 | 0.998 | 9.2 | 1.5 | 1.000 |

Table 4. Comparison of Least Square Mean Percent Metabolic Efficiency Across Dose Groups for Females

| | BPA 100,000 (µg/kg) | | | BPA 300,000 (µg/kg) | | | $EE_2$ 0.5 (µg/kg) | | | $EE_2$ 5.0 (µg/kg) | | | Naïve Control | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val |
| 4-13 | 19.1 | 0.4 | 0.006 | 18.5 | 0.3 | 0.000 | 19.3 | 0.4 | 0.019 | 21.5 | 0.4 | 0.082 | 19.0 | 0.3 | 0.001 |
| 4 | 39.6 | 0.8 | 0.992 | 38.1 | 0.9 | 0.300 | 40.1 | 0.8 | 0.917 | 40.7 | 0.8 | 0.623 | 38.8 | 0.8 | 0.437 |
| 5 | 36.2 | 0.7 | 0.950 | 36.0 | 0.7 | 0.889 | 38.9 | 0.7 | 0.027 | 38.8 | 0.7 | 0.040 | 35.2 | 0.7 | 0.227 |
| 6 | 27.6 | 0.7 | 0.728 | 28.2 | 0.8 | 1.000 | 29.6 | 0.7 | 0.331 | 31.3 | 0.7 | 0.007 | 27.1 | 0.7 | 0.255 |
| 7 | 21.6 | 0.6 | 0.661 | 22.0 | 0.6 | 0.910 | 22.6 | 0.6 | 0.908 | 25.4 | 0.6 | 0.001 | 20.0 | 0.6 | 0.007 |
| 8 | 18.2 | 0.6 | 0.005 | 17.8 | 0.6 | 0.001 | 18.5 | 0.6 | 0.017 | 21.2 | 0.6 | 0.861 | 18.4 | 0.6 | 0.005 |
| 9 | 15.1 | 0.6 | 0.797 | 15.2 | 0.6 | 0.711 | 14.7 | 0.6 | 0.997 | 17.4 | 0.6 | 0.003 | 14.8 | 0.6 | 0.829 |
| 10 | 11.7 | 0.6 | 0.006 | 11.7 | 0.7 | 0.007 | 12.0 | 0.6 | 0.017 | 14.7 | 0.6 | 0.872 | 12.5 | 0.6 | 0.043 |
| 11 | 8.4 | 0.7 | 0.024 | 7.7 | 0.7 | 0.003 | 7.3 | 0.7 | 0.001 | 10.7 | 0.7 | 0.991 | 10.5 | 0.7 | 0.700 |
| 12 | 5.9 | 0.8 | 0.005 | 4.6 | 0.8 | 0.000 | 5.6 | 0.8 | 0.002 | 7.6 | 0.8 | 0.217 | 8.1 | 0.8 | 0.275 |
| 13 | 6.5 | 2.2 | 0.679 | 3.6 | 2.0 | 0.116 | 3.3 | 2.2 | 0.119 | 7.3 | 2.2 | 0.857 | 4.6 | 1.7 | 0.108 |

All p-values and % are relative to the control group, except p-values for the linear trend are presented under the control group.

Table 5. Female Metabolic Efficiency Least Square Mean Treatment Percent of Vehicle

| | Treatments | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | BPA 2.5 (µg/kg | BPA 8 (µg/kg) | BPA 25 (µg/kg) | BPA 80 (µg/kg) | BPA 260 (µg/kg) | BPA 840 (µg/kg) | BPA 2700 (µg/kg) | BPA 100,000 (µg/kg) | BPA 300,000 (µg/kg) | $EE_2$ 0.5 (µg/kg) | $EE_2$ 5.0 (µg/kg) | Naïve Control |
| 4-13 | 95.8 | 96.0 | 95.4 | 95.0 | 95.7 | 96.8 | 95.3 | 92.9 | 90.1 | 93.8 | 104.8 | 92.5 |
| 4 | 98.8 | 98.0 | 96.1 | 96.0 | 97.1 | 95.5 | 95.6 | 99.7 | 95.9 | 101.0 | 102.5 | 97.6 |
| 5 | 98.1 | 103.7 | 95.6 | 96.6 | 101.0 | 96.5 | 99.6 | 99.3 | 98.9 | 106.7 | 106.3 | 96.7 |
| 6 | 95.7 | 95.6 | 96.1 | 97.3 | 97.4 | 96.9 | 97.0 | 97.6 | 100.0 | 104.8 | 110.7 | 95.8 |
| 7 | 98.2 | 96.3 | 97.8 | 94.9 | 92.1 | 97.1 | 88.5 | 97.0 | 98.6 | 101.4 | 113.9 | 89.5 |
| 8 | 93.4 | 95.4 | 90.7 | 94.9 | 92.8 | 92.7 | 91.0 | 87.6 | 85.7 | 89.1 | 101.9 | 88.3 |
| 9 | 107.6 | 110.7 | 104.3 | 109.9 | 107.3 | 109.2 | 100.3 | 103.3 | 104.2 | 100.4 | 119.3 | 101.3 |
| 10 | 87.3 | 93.8 | 88.8 | 92.6 | 83.8 | 96.7 | 80.4 | 81.5 | 81.5 | 83.4 | 102.7 | 87.2 |
| 11 | 96.2 | 97.0 | 93.6 | 93.7 | 113.7 | 109.6 | 103.7 | 77.1 | 71.0 | 67.0 | 99.0 | 96.5 |
| 12 | 77.1 | 93.1 | 94.1 | 68.9 | 90.5 | 85.1 | 92.6 | 63.2 | 49.1 | 59.7 | 81.3 | 86.5 |
| 13 | 86.3 | 37.8 | 94.8 | 85.8 | 60.1 | 87.3 | 107.1 | 75.3 | 41.2 | 38.5 | 84.5 | 53.6 |

Table 6. Female Metabolic Efficiency Unadjusted P-values

| | Treatments | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | BPA 2.5 (µg/kg | BPA 8 (µg/kg) | BPA 25 (µg/kg) | BPA 80 (µg/kg) | BPA 260 (µg/kg) | BPA 840 (µg/kg) | BPA 2700 (µg/kg) | BPA 100,000 (µg/kg) | BPA 300,000 (µg/kg) | $EE_2$ 0.5 (µg/kg) | $EE_2$ 5.0 (µg/kg) | Naïve Control |
| 4-13 | 0.054 | 0.111 | 0.044 | 0.030 | 0.056 | 0.150 | 0.038 | 0.003 | 0.000 | 0.010 | 0.045 | 0.001 |
| 4 | 0.682 | 0.526 | 0.193 | 0.181 | 0.338 | 0.139 | 0.145 | 0.917 | 0.178 | 0.730 | 0.412 | 0.437 |
| 5 | 0.465 | 0.187 | 0.102 | 0.213 | 0.702 | 0.205 | 0.898 | 0.790 | 0.687 | 0.015 | 0.022 | 0.227 |
| 6 | 0.231 | 0.247 | 0.291 | 0.460 | 0.482 | 0.404 | 0.418 | 0.504 | 0.995 | 0.198 | 0.004 | 0.255 |
| 7 | 0.636 | 0.353 | 0.573 | 0.190 | 0.043 | 0.457 | 0.003 | 0.444 | 0.718 | 0.715 | 0.000 | 0.007 |
| 8 | 0.101 | 0.284 | 0.023 | 0.219 | 0.081 | 0.081 | 0.032 | 0.003 | 0.001 | 0.009 | 0.649 | 0.005 |
| 9 | 0.193 | 0.085 | 0.473 | 0.102 | 0.219 | 0.127 | 0.955 | 0.575 | 0.488 | 0.948 | 0.001 | 0.829 |
| 10 | 0.037 | 0.339 | 0.072 | 0.239 | 0.009 | 0.604 | 0.002 | 0.003 | 0.004 | 0.009 | 0.663 | 0.043 |
| 11 | 0.672 | 0.749 | 0.479 | 0.494 | 0.130 | 0.293 | 0.688 | 0.013 | 0.002 | 0.000 | 0.914 | 0.700 |
| 12 | 0.053 | 0.581 | 0.625 | 0.011 | 0.434 | 0.223 | 0.544 | 0.003 | 0.000 | 0.001 | 0.125 | 0.275 |
| 13 | 0.607 | 0.082 | 0.856 | 0.633 | 0.158 | 0.648 | 0.799 | 0.460 | 0.065 | 0.066 | 0.644 | 0.108 |

Table 7. Comparison of Least Square Mean Percent Metabolic Efficiency Across Dose Groups for Males

| | Vehicle | | | BPA 2.5 (µg/kg) | | | BPA 8 (µg/kg) | | | BPA 25 (µg/kg) | | | BPA 80 (µg/kg) | | | BPA 260 (µg/kg) | | | BPA 840 (µg/kg) | | | BPA 2700 (µg/kg) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val |
| 4-13 | 26.4 | 0.3 | 0.199 | 26.5 | 0.3 | 1.000 | 26.7 | 0.3 | 0.970 | 26.5 | 0.3 | 1.000 | 26.7 | 0.3 | 0.940 | 26.2 | 0.3 | 0.998 | 26.1 | 0.3 | 0.971 | 26.1 | 0.3 | 0.992 |
| 4 | 40.5 | 0.8 | 0.088 | 41.6 | 0.8 | 0.902 | 41.7 | 0.9 | 0.872 | 40.0 | 0.8 | 0.999 | 42.0 | 0.8 | 0.666 | 40.9 | 0.8 | 1.000 | 40.4 | 0.8 | 1.000 | 39.6 | 0.9 | 0.962 |
| 5 | 39.5 | 0.7 | 0.327 | 39.9 | 0.6 | 0.998 | 39.9 | 0.7 | 0.999 | 38.3 | 0.7 | 0.728 | 39.8 | 0.7 | 1.000 | 38.7 | 0.7 | 0.946 | 39.8 | 0.7 | 1.000 | 38.6 | 0.7 | 0.906 |
| 6 | 36.3 | 0.6 | 0.201 | 36.0 | 0.6 | 1.000 | 36.7 | 0.6 | 0.998 | 35.5 | 0.6 | 0.890 | 36.0 | 0.6 | 0.999 | 35.0 | 0.6 | 0.532 | 36.0 | 0.6 | 0.999 | 35.1 | 0.6 | 0.617 |
| 7 | 33.9 | 0.7 | 0.070 | 33.1 | 0.6 | 0.921 | 33.1 | 0.7 | 0.951 | 33.2 | 0.7 | 0.973 | 33.4 | 0.7 | 0.994 | 32.3 | 0.7 | 0.366 | 31.3 | 0.7 | 0.041 | 32.2 | 0.7 | 0.312 |
| 8 | 30.0 | 0.7 | 0.513 | 29.8 | 0.7 | 1.000 | 29.9 | 0.8 | 1.000 | 30.0 | 0.7 | 1.000 | 29.9 | 0.7 | 1.000 | 28.6 | 0.7 | 0.594 | 28.9 | 0.7 | 0.815 | 29.4 | 0.7 | 0.995 |
| 9 | 24.2 | 0.6 | 0.725 | 23.7 | 0.5 | 0.979 | 23.6 | 0.6 | 0.978 | 24.3 | 0.6 | 1.000 | 23.9 | 0.6 | 0.999 | 23.3 | 0.6 | 0.830 | 23.4 | 0.6 | 0.897 | 23.7 | 0.6 | 0.991 |
| 10 | 19.9 | 0.5 | 0.958 | 19.9 | 0.4 | 1.000 | 19.5 | 0.5 | 0.994 | 20.7 | 0.5 | 0.748 | 20.2 | 0.5 | 0.998 | 20.2 | 0.5 | 0.999 | 19.3 | 0.5 | 0.914 | 20.1 | 0.5 | 1.000 |
| 11 | 15.1 | 0.4 | 0.726 | 16.1 | 0.4 | 0.375 | 16.8 | 0.5 | 0.046 | 16.6 | 0.4 | 0.090 | 16.1 | 0.4 | 0.422 | 17.0 | 0.4 | 0.014 | 16.3 | 0.4 | 0.288 | 16.1 | 0.4 | 0.510 |
| 12 | 12.2 | 0.6 | 0.552 | 12.6 | 0.6 | 0.999 | 13.4 | 0.7 | 0.698 | 12.4 | 0.6 | 1.000 | 13.0 | 0.6 | 0.938 | 13.1 | 0.6 | 0.883 | 12.8 | 0.6 | 0.979 | 13.1 | 0.6 | 0.846 |
| 13 | 12.2 | 0.7 | 0.277 | 12.0 | 0.7 | 1.000 | 12.2 | 0.9 | 1.000 | 13.4 | 0.9 | 0.783 | 12.9 | 0.7 | 0.962 | 12.8 | 0.8 | 0.991 | 12.6 | 0.7 | 0.998 | 13.4 | 0.7 | 0.706 |

Table 7. Comparison of Least Square Mean Percent Metabolic Efficiency Across Dose Groups for Males

| | BPA 100,000 (µg/kg) | | | BPA 300,000 (µg/kg) | | | $EE_2$ 0.5 (µg/kg) | | | $EE_2$ 5.0 (µg/kg) | | | Naïve Control | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val | Mean | S.E. | P-val |
| 4-13 | 25.9 | 0.3 | 0.384 | 24.9 | 0.3 | 0.002 | 26.0 | 0.3 | 0.643 | 26.1 | 0.3 | 0.794 | 27.0 | 0.3 | 0.126 |
| 4 | 41.9 | 0.8 | 0.357 | 39.3 | 0.9 | 0.472 | 41.1 | 0.8 | 0.835 | 42.7 | 0.8 | 0.115 | 41.3 | 0.8 | 0.515 |
| 5 | 39.4 | 0.6 | 0.999 | 36.2 | 0.7 | 0.002 | 39.3 | 0.7 | 0.973 | 39.5 | 0.7 | 0.998 | 40.1 | 0.7 | 0.482 |
| 6 | 34.4 | 0.6 | 0.036 | 33.1 | 0.6 | 0.001 | 35.8 | 0.6 | 0.756 | 34.4 | 0.6 | 0.049 | 36.0 | 0.6 | 0.705 |
| 7 | 30.9 | 0.6 | 0.002 | 31.4 | 0.7 | 0.020 | 32.8 | 0.7 | 0.384 | 30.7 | 0.7 | 0.002 | 32.5 | 0.7 | 0.159 |
| 8 | 27.4 | 0.7 | 0.017 | 28.8 | 0.8 | 0.429 | 29.0 | 0.7 | 0.555 | 28.5 | 0.7 | 0.264 | 29.7 | 0.7 | 0.776 |
| 9 | 24.5 | 0.5 | 0.902 | 23.8 | 0.6 | 0.835 | 22.9 | 0.6 | 0.185 | 24.0 | 0.6 | 0.964 | 23.3 | 0.6 | 0.267 |
| 10 | 19.5 | 0.5 | 0.798 | 19.0 | 0.5 | 0.316 | 19.5 | 0.5 | 0.739 | 20.3 | 0.5 | 0.735 | 20.8 | 0.5 | 0.157 |
| 11 | 15.7 | 0.4 | 0.535 | 14.9 | 0.5 | 0.928 | 15.8 | 0.4 | 0.447 | 16.4 | 0.4 | 0.074 | 17.1 | 0.4 | 0.002 |
| 12 | 11.9 | 0.6 | 0.881 | 10.9 | 0.7 | 0.252 | 12.5 | 0.6 | 0.956 | 11.9 | 0.6 | 0.882 | 15.4 | 0.6 | 0.000 |
| 13 | 13.2 | 0.9 | 0.530 | 11.8 | 1.0 | 0.929 | 11.9 | 0.8 | 0.945 | 12.9 | 1.0 | 0.786 | 14.1 | 0.8 | 0.066 |

All p-values and % are relative to the control group, except p-values for the linear trend are presented under the control group.

Table 8. Male Metabolic Efficiency Least Square Mean Treatment Percent of Vehicle

| | Treatments | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | BPA 2.5 (µg/kg | BPA 8 (µg/kg) | BPA 25 (µg/kg) | BPA 80 (µg/kg) | BPA 260 (µg/kg) | BPA 840 (µg/kg) | BPA 2700 (µg/kg) | BPA 100,000 (µg/kg) | BPA 300,000 (µg/kg) | $EE_2$ 0.5 (µg/kg) | $EE_2$ 5.0 (µg/kg) | Naïve Control |
| 4-13 | 100.3 | 101.2 | 100.3 | 101.3 | 99.3 | 98.9 | 99.1 | 98.1 | 94.5 | 98.7 | 99.1 | 102.5 |
| 4 | 102.6 | 102.9 | 98.8 | 103.7 | 100.8 | 99.6 | 97.8 | 103.5 | 96.9 | 101.5 | 105.4 | 101.9 |
| 5 | 101.0 | 101.0 | 97.1 | 100.9 | 98.1 | 100.7 | 97.8 | 99.9 | 91.9 | 99.5 | 100.1 | 101.7 |
| 6 | 99.2 | 101.1 | 97.8 | 99.1 | 96.5 | 99.1 | 96.8 | 94.6 | 91.3 | 98.5 | 94.7 | 99.1 |
| 7 | 97.6 | 97.7 | 98.0 | 98.4 | 95.1 | 92.4 | 94.9 | 91.1 | 92.5 | 96.6 | 90.6 | 96.0 |
| 8 | 99.4 | 99.9 | 100.3 | 99.9 | 95.3 | 96.4 | 98.2 | 91.4 | 96.1 | 96.9 | 95.2 | 99.0 |
| 9 | 97.8 | 97.7 | 100.5 | 98.8 | 96.5 | 96.9 | 98.1 | 101.2 | 98.3 | 94.6 | 99.3 | 96.3 |
| 10 | 100.0 | 98.2 | 103.9 | 101.4 | 101.4 | 97.0 | 101.2 | 98.2 | 95.5 | 97.8 | 102.2 | 104.8 |
| 11 | 106.8 | 111.3 | 109.8 | 106.7 | 112.6 | 107.7 | 106.2 | 103.9 | 98.6 | 104.5 | 108.5 | 112.9 |
| 12 | 102.6 | 109.4 | 101.5 | 106.1 | 107.0 | 104.9 | 107.4 | 96.9 | 89.1 | 101.8 | 96.9 | 125.7 |
| 13 | 98.2 | 100.3 | 110.2 | 106.3 | 105.1 | 103.7 | 109.9 | 108.8 | 96.8 | 97.6 | 105.8 | 115.9 |

Table 9. Male Metabolic Efficiency Unadjusted P-values

| | Treatments | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | BPA 2.5 (µg/kg | BPA 8 (µg/kg) | BPA 25 (µg/kg) | BPA 80 (µg/kg) | BPA 260 (µg/kg) | BPA 840 (µg/kg) | BPA 2700 (µg/kg) | BPA 100,000 (µg/kg) | BPA 300,000 (µg/kg) | $EE_2$ 0.5 (µg/kg) | $EE_2$ 5.0 (µg/kg) | Naïve Control |
| 4-13 | 0.853 | 0.477 | 0.847 | 0.412 | 0.653 | 0.480 | 0.575 | 0.234 | 0.001 | 0.429 | 0.571 | 0.126 |
| 4 | 0.360 | 0.329 | 0.683 | 0.199 | 0.774 | 0.897 | 0.453 | 0.215 | 0.295 | 0.617 | 0.064 | 0.515 |
| 5 | 0.658 | 0.679 | 0.231 | 0.723 | 0.421 | 0.758 | 0.365 | 0.979 | 0.001 | 0.847 | 0.954 | 0.482 |
| 6 | 0.719 | 0.653 | 0.347 | 0.696 | 0.144 | 0.701 | 0.178 | 0.019 | 0.000 | 0.532 | 0.027 | 0.705 |
| 7 | 0.384 | 0.431 | 0.483 | 0.587 | 0.088 | 0.007 | 0.072 | 0.001 | 0.010 | 0.234 | 0.001 | 0.159 |
| 8 | 0.854 | 0.981 | 0.935 | 0.984 | 0.168 | 0.284 | 0.601 | 0.009 | 0.265 | 0.357 | 0.155 | 0.776 |
| 9 | 0.505 | 0.499 | 0.881 | 0.713 | 0.295 | 0.355 | 0.568 | 0.707 | 0.617 | 0.105 | 0.823 | 0.267 |
| 10 | 0.993 | 0.594 | 0.242 | 0.668 | 0.671 | 0.374 | 0.728 | 0.575 | 0.189 | 0.515 | 0.511 | 0.157 |
| 11 | 0.091 | 0.008 | 0.017 | 0.106 | 0.002 | 0.066 | 0.136 | 0.342 | 0.750 | 0.278 | 0.040 | 0.002 |
| 12 | 0.714 | 0.215 | 0.833 | 0.407 | 0.341 | 0.502 | 0.308 | 0.677 | 0.147 | 0.803 | 0.678 | 0.000 |
| 13 | 0.820 | 0.978 | 0.262 | 0.454 | 0.563 | 0.657 | 0.219 | 0.338 | 0.750 | 0.781 | 0.562 | 0.066 |