

**Study Number:** MOG11042  
**Test Type:** MOG - Range Finding  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Harlan Sprague Dawley

**I04: Mean Body Weight Summary**  
**Test Compound:** Triphenyl Phosphate  
**CAS Number:** 115-86-6

**Date Report Requested:** 11/04/2021  
**Time Report Requested:** 16:47:48  
**Lab:** Battelle

**Study Number:** MOG11042  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.3.3  
**Stat Version:** S

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F0 Females

Treatment Groups (ppm)

| Phase Day | 0              |    |  | 1000        |           |    | 3000           |           |    | 10000          |           |    |
|-----------|----------------|----|--|-------------|-----------|----|----------------|-----------|----|----------------|-----------|----|
|           | Wt (g)         | N  |  | Wt (g)      | % of CNTL | N  | Wt (g)         | % of CNTL | N  | Wt (g)         | % of CNTL | N  |
| GD3       | 221.1 ± 2.8    | 19 |  | 219.7 ± 2.6 | 99.4      | 19 | 223.2 ± 1.7    | 100.9     | 12 | 223.8 ± 2.6    | 101.2     | 18 |
| GD6       | 233.2 ± 2.4    | 19 |  | 229.3 ± 2.0 | 98.3      | 19 | 232.6 ± 2.1    | 99.7      | 12 | 234.1 ± 2.6    | 100.4     | 18 |
| GD7       | 242.8 ± 2.5 ** | 19 |  | 237.4 ± 2.2 | 97.8      | 19 | 232.5 ± 2.5 ** | 95.7      | 12 | 223.8 ± 2.4 ** | 92.2      | 18 |
| GD8       | 244.7 ± 2.5 ** | 19 |  | 239.7 ± 2.3 | 98.0      | 19 | 237.4 ± 2.9 *  | 97.0      | 12 | 229.3 ± 2.5 ** | 93.7      | 18 |
| GD9       | 251.9 ± 2.8 ** | 19 |  | 246.4 ± 2.2 | 97.8      | 19 | 243.9 ± 2.0 *  | 96.8      | 12 | 233.2 ± 2.4 ** | 92.6      | 18 |
| GD10      | 257.6 ± 3.1 ** | 19 |  | 252.2 ± 2.5 | 97.9      | 19 | 249.5 ± 1.9    | 96.9      | 12 | 235.9 ± 3.1 ** | 91.6      | 18 |
| GD11      | 265.4 ± 2.9 ** | 19 |  | 258.8 ± 2.6 | 97.5      | 19 | 255.1 ± 1.8 *  | 96.1      | 12 | 241.8 ± 2.7 ** | 91.1      | 18 |
| GD12      | 265.2 ± 2.9 ** | 19 |  | 257.2 ± 2.9 | 97.0      | 19 | 258.5 ± 2.1    | 97.5      | 12 | 246.6 ± 3.0 ** | 93.0      | 18 |
| GD13      | 267.1 ± 3.0 ** | 19 |  | 261.5 ± 2.4 | 97.9      | 19 | 261.3 ± 1.7    | 97.8      | 12 | 248.6 ± 3.0 ** | 93.1      | 18 |
| GD14      | 274.3 ± 3.1 ** | 19 |  | 267.3 ± 2.5 | 97.5      | 19 | 267.5 ± 2.2    | 97.5      | 12 | 254.1 ± 3.2 ** | 92.6      | 18 |
| GD15      | 283.5 ± 3.2 ** | 19 |  | 277.3 ± 3.1 | 97.8      | 19 | 278.9 ± 2.3    | 98.4      | 12 | 262.7 ± 3.2 ** | 92.7      | 18 |
| GD16      | 297.2 ± 3.8 ** | 19 |  | 288.8 ± 3.2 | 97.2      | 19 | 282.9 ± 6.5 *  | 95.2      | 12 | 270.6 ± 3.3 ** | 91.1      | 18 |
| GD17      | 300.4 ± 3.6 ** | 19 |  | 295.2 ± 3.7 | 98.3      | 19 | 292.6 ± 7.7    | 97.4      | 12 | 282.6 ± 3.3 ** | 94.1      | 18 |
| GD18      | 319.1 ± 4.8 ** | 19 |  | 310.1 ± 4.7 | 97.2      | 19 | 312.4 ± 4.2    | 97.9      | 12 | 295.4 ± 3.8 ** | 92.6      | 18 |
| GD19      | 334.0 ± 5.2 ** | 16 |  | 332.8 ± 5.2 | 99.6      | 16 | 332.6 ± 6.1    | 99.6      | 12 | 305.4 ± 4.4 ** | 91.4      | 15 |
| GD20      | 348.6 ± 6.1 ** | 16 |  | 348.2 ± 5.8 | 99.9      | 16 | 353.1 ± 4.4    | 101.3     | 12 | 320.6 ± 5.3 ** | 92.0      | 15 |
| GD21      | 358.3 ± 6.8 ** | 16 |  | 358.2 ± 6.8 | 100.0     | 16 | 362.8 ± 6.8    | 101.3     | 10 | 331.8 ± 4.7 ** | 92.6      | 14 |
| LD1       | 269.7 ± 2.8 ** | 15 |  | 264.8 ± 2.7 | 98.2      | 16 | 264.3 ± 2.4    | 98.0      | 12 | 246.4 ± 4.0 ** | 91.4      | 15 |
| LD4       | 273.9 ± 3.3 ** | 15 |  | 272.5 ± 3.8 | 99.5      | 16 | 274.2 ± 1.9    | 100.1     | 12 | 242.0 ± 6.6 ** | 88.4      | 15 |
| LD7       | 288.9 ± 3.1 ** | 12 |  | 289.0 ± 4.1 | 100.0     | 13 | 288.0 ± 2.6    | 99.7      | 12 | 249.1 ± 4.1 ** | 86.2      | 12 |
| LD10      | 291.9 ± 3.6 ** | 12 |  | 293.3 ± 4.2 | 100.5     | 13 | 287.3 ± 3.1    | 98.4      | 12 | 248.3 ± 4.3 ** | 85.1      | 12 |
| LD14      | 301.8 ± 3.7 ** | 12 |  | 303.9 ± 5.5 | 100.7     | 13 | 303.1 ± 3.7    | 100.4     | 12 | 246.1 ± 4.8 ** | 81.5      | 12 |
| LD17      | 294.4 ± 4.2 ** | 12 |  | 301.4 ± 3.7 | 102.4     | 13 | 295.4 ± 3.7    | 100.3     | 12 | 247.0 ± 4.6 ** | 83.9      | 12 |
| LD21      | 274.3 ± 4.1 ** | 12 |  | 275.6 ± 2.8 | 100.5     | 13 | 270.4 ± 4.7    | 98.6      | 12 | 244.4 ± 3.7 ** | 89.1      | 12 |
| LD24      | 277.4 ± 2.6 ** | 12 |  | 279.6 ± 3.4 | 100.8     | 13 | 278.8 ± 3.7    | 100.5     | 12 | 243.1 ± 5.0 ** | 87.7      | 12 |
| LD28      | 261.7 ± 4.5 ** | 12 |  | 262.2 ± 3.9 | 100.2     | 13 | 257.3 ± 4.2    | 98.3      | 12 | 247.2 ± 4.4    | 94.5      | 12 |

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F0 Females

| Phase Day | Treatment Groups (ppm) |           |    |                |           |    |
|-----------|------------------------|-----------|----|----------------|-----------|----|
|           | 15000                  |           |    | 30000          |           |    |
|           | Wt (g)                 | % of CNTL | N  | Wt (g)         | % of CNTL | N  |
| GD3       | 220.2 ± 2.2            | 99.6      | 11 | 223.1 ± 1.8    | 100.9     | 12 |
| GD6       | 229.6 ± 2.2            | 98.5      | 11 | 232.9 ± 2.1    | 99.9      | 12 |
| GD7       | 218.3 ± 1.8 **         | 89.9      | 11 | 218.2 ± 1.8 ** | 89.9      | 12 |
| GD8       | 217.9 ± 1.9 **         | 89.0      | 11 | 212.3 ± 2.0 ** | 86.8      | 12 |
| GD9       | 215.9 ± 2.5 **         | 85.7      | 11 | 205.3 ± 2.5 ** | 81.5      | 12 |
| GD10      | 216.7 ± 1.7 **         | 84.1      | 11 | 199.9 ± 2.6 ** | 77.6      | 12 |
| GD11      | 216.6 ± 3.2 **         | 81.6      | 11 | 194.6 ± 2.6 ** | 73.3      | 12 |
| GD12      | 220.3 ± 2.8 **         | 83.1      | 11 | 187.3 ± 3.2 ** | 70.6      | 12 |
| GD13      | 223.1 ± 3.1 **         | 83.5      | 11 | NA             |           |    |
| GD14      | 229.4 ± 3.4 **         | 83.7      | 11 | NA             |           |    |
| GD15      | 235.9 ± 3.3 **         | 83.2      | 11 | NA             |           |    |
| GD16      | 242.1 ± 3.7 **         | 81.5      | 11 | NA             |           |    |
| GD17      | 249.4 ± 4.2 **         | 83.0      | 11 | NA             |           |    |
| GD18      | 260.1 ± 4.8 **         | 81.5      | 11 | NA             |           |    |
| GD19      | 268.0 ± 5.3 **         | 80.2      | 11 | NA             |           |    |
| GD20      | 277.6 ± 6.1 **         | 79.6      | 11 | NA             |           |    |
| GD21      | 284.7 ± 6.1 **         | 79.5      | 11 | NA             |           |    |
| LD1       | 208.6 ± 4.2 **         | 77.4      | 11 | NA             |           |    |
| LD4       | 206.6 ± 4.3 **         | 75.4      | 11 | NA             |           |    |
| LD7       | 204.6 ± 4.8 **         | 70.8      | 11 | NA             |           |    |
| LD10      | 208.8 ± 4.4 **         | 71.5      | 10 | NA             |           |    |
| LD14      | 209.0 ± 4.6 **         | 69.2      | 10 | NA             |           |    |
| LD17      | 205.4 ± 4.3 **         | 69.8      | 10 | NA             |           |    |
| LD21      | 202.3 ± 6.7 **         | 73.8      | 10 | NA             |           |    |
| LD24      | 204.5 ± 5.7 **         | 73.7      | 8  | NA             |           |    |
| LD28      | 196.9 ± 10.8 **        | 75.2      | 8  | NA             |           |    |

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F1 Males

Treatment Groups (ppm)

| Phase Day | 0              |         |  | 1000        |           |         | 3000          |           |         | 10000          |           |        |
|-----------|----------------|---------|--|-------------|-----------|---------|---------------|-----------|---------|----------------|-----------|--------|
|           | Wt (g)         | N       |  | Wt (g)      | % of CNTL | N       | Wt (g)        | % of CNTL | N       | Wt (g)         | % of CNTL | N      |
| PND35     | 120.1 ± 3.8 ** | 31 (10) |  | 114.3 ± 2.8 | 95.2      | 52 (10) | 111.0 ± 2.7   | 92.4      | 59 (12) | 68.0 ± 4.3 **  | 56.7      | 33 (9) |
| PND42     | 167.4 ± 4.2 ** | 31 (10) |  | 158.1 ± 3.4 | 94.4      | 52 (10) | 152.9 ± 2.4 * | 91.3      | 58 (12) | 98.5 ± 5.0 **  | 58.8      | 33 (9) |
| PND49     | 215.1 ± 5.7 ** | 31 (10) |  | 202.1 ± 3.8 | 94.0      | 52 (10) | 197.9 ± 2.4 * | 92.0      | 59 (12) | 125.3 ± 6.1 ** | 58.2      | 33 (9) |

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**F1 Males**

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**Treatment Groups (ppm)**

| Phase Day | 15000         |           |        |
|-----------|---------------|-----------|--------|
|           | Wt (g)        | % of CNTL | N      |
| PND35     | 38.1 ± 2.2 ** | 31.7      | 11 (6) |
| PND42     | 52.3 ± 3.5 ** | 31.2      | 11 (6) |
| PND49     | 59.7 ± 3.2 ** | 27.7      | 11 (6) |

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**F1 Females**

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**Treatment Groups (ppm)**

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| Phase Day | 0              |         |  | 1000        |           |         | 3000           |           |         | 10000         |           |         |
|-----------|----------------|---------|--|-------------|-----------|---------|----------------|-----------|---------|---------------|-----------|---------|
|           | Wt (g)         | N       |  | Wt (g)      | % of CNTL | N       | Wt (g)         | % of CNTL | N       | Wt (g)        | % of CNTL | N       |
| PND35     | 102.8 ± 3.4 ** | 55 (11) |  | 99.3 ± 2.5  | 96.6      | 45 (10) | 90.6 ± 2.2 **  | 88.1      | 62 (12) | 61.6 ± 3.1 ** | 59.9      | 41 (11) |
| PND42     | 133.8 ± 3.7 ** | 55 (11) |  | 129.9 ± 2.7 | 97.1      | 45 (10) | 121.7 ± 1.9 ** | 91.0      | 62 (12) | 80.6 ± 3.5 ** | 60.2      | 39 (11) |

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**F1 Females**

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**Treatment Groups (ppm)**

| Phase Day | 15000         |           |       |
|-----------|---------------|-----------|-------|
|           | Wt (g)        | % of CNTL | N     |
| PND35     | 28.9 ± 1.5 ** | 28.1      | 6 (3) |
| PND42     | 44.8 ± 4.5 ** | 33.4      | 6 (3) |

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#### LEGEND

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Data are displayed as mean  $\pm$  SEM

GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day

In multigenerational studies, body weights reported for all animals until mating; pregnant animals only during gestation and lactation; all animals post-weaning.

Statistical analysis for F0 animals performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the F1 generation was performed using mixed models, with litter as a random effect for both trend and pairwise tests, and using Dunnett-Hsu adjustment for multiple comparisons.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

The 30,000 ppm group was terminated due to excessive toxicity on GD12.

Three dams were removed from the control, 1000, and 10000 ppm groups for biological sample collection on GD18, and three dams and their litters were removed from these groups on LD4.

NA - Not Available

**\*\* END OF REPORT \*\***