Table MS1. Results of the preliminary tests of larval development time and larval survival at different concentrations of food. The numbers represent the number of *A. aegypti* larvae surviving at the given time, Roman numbers indicate replicas, d means days, and \* represents larvae that have become pupae.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **0h** | **1d** | **2d** | **3d** | **4d** | **5d** | **6d** | **7d** | **8d** | **9d** | **10d** | **11d** | **12d** | **13d** | **14d** | **15d** | **16d** | **17d** | **18d** | **19d** | **20d** | **21d** |
| **0g/L(I)** | 15 | 14 | 5 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0g/L(II)** | 15 | 12 | 6 | 3 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0g/L(III)** | 15 | 8 | 6 | 2 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0g/L(IV)** | 15 | 9 | 5 | 4 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0g/L(V)** | 15 | 5 | 3 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0g/L(VI)** | 15 | 11 | 5 | 5 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(I)** | 15 | 11 | 10 | 6 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(II)** | 15 | 15 | 10 | 9 | 5 | 4 | 2 | 2 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(III)** | 15 | 13 | 11 | 9 | 8 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(IV)** | 15 | 14 | 11 | 11 | 7 | 6 | 4 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(V)** | 15 | 14 | 10 | 8 | 6 | 5 | 3 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0033g/L(VI)** | 15 | 11 | 10 | 8 | 8 | 5 | 3 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0066g/L(I)** | 15 | 7 | 7 | 5 | 4 | 4 | 2 | 1 | 1 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| **0.0066g/L(II)** | 15 | 10 | 6 | 4 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |
| **0.0066g/L(III)** | 15 | 13 | 8 | 6 | 5 | 3 | 2 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0066g/L(IV)** | 15 | 12 | 9 | 6 | 5 | 5 | 4 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 0 |  |  |  |  |  |  |
| **0.0066g/L(V)** | 15 | 14 | 11 | 10 | 10 | 7 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |  |  |
| **0.0066g/L(VI)** | 15 | 12 | 9 | 7 | 7 | 5 | 4 | 2 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.0133g/L(I)** | 15 | 15 | 13 | 11 | 11 | 9 | 7 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| **0.0133g/L(II)** | 15 | 15 | 15 | 14 | 13 | 8 | 6 | 5 | 5 | 4 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |
| **0.0133g/L(III)** | 15 | 12 | 12 | 10 | 10 | 10 | 7 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| **0.0133g/L(IV)** | 15 | 13 | 11 | 11 | 11 | 10 | 5 | 4 | 2 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |
| **0.0133g/L(V)** | 15 | 15 | 12 | 12 | 10 | 7 | 5 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 0 |  |  |  |  |  |  |
| **0.0133g/L(VI)** | 15 | 11 | 7 | 6 | 5 | 5 | 5 | 4 | 3 | 3 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |
| **0.02g/L(I)** | 15 | 15 | 13 | 10 | 7 | 6 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.02g/L(II)** | 15 | 13 | 11 | 11 | 9 | 5 | 5 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |  |  |  |  |
| **0.02g/L(III)** | 15 | 11 | 8 | 8 | 7 | 7 | 7 | 3 | 3 | 3 | 2 | 0 |  |  |  |  |  |  |  |  |  |  |
| **0.02g/L(IV)** | 15 | 14 | 11 | 9 | 6 | 5 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.02g/L(V)** | 15 | 12 | 10 | 7 | 7 | 6 | 4 | 1 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.02g/L(VI)** | 15 | 10 | 7 | 7 | 7 | 7 | 6 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 0 |
| **0.025g/L(I)** | 15 | 15 | 13 | 13 | 12 | 10 | 9 | 7 - 2\* | 1 - 5\* | 1\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.025g/L(II)** | 15 | 14 | 11 | 11 | 11 | 10 | 10 | 10 | 4 - 6\* | 1 - 3\* | 1 | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.025g/L(III)** | 15 | 15 | 14 | 14 | 14 | 12 | 12 | 10 - 1\* | 8 - 2\* | 6 - 2\* | 3 - 3\* | 3\* |  |  |  |  |  |  |  |  |  |  |
| **0.025g/L(IV)** | 15 | 14 | 14 | 14 | 13 | 12 | 12 | 12 | 7 - 5\* | 3 - 3\* | 2 | 1 - 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.025g/L(V)** | 15 | 15 | 15 | 14 | 12 | 12 | 12 | 12 | 8 - 4\* | 2 - 6\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.025g/L(VI)** | 15 | 15 | 15 | 15 | 14 | 13 | 13 | 13 | 8 - 3\* | 2 - 5\* | 2 | 2\* |  |  |  |  |  |  |  |  |  |  |
| **0.03g/L(I)** | 15 | 15 | 13 | 13 | 12 | 11 | 11 | 10 - 1\* | 7 - 3\* | 6\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.03g/L(II)** | 15 | 15 | 15 | 15 | 12 | 10 | 10 | 10 | 4 - 5\* | 2 - 2\* | 1 - 1\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.03g/L(III)** | 15 | 15 | 15 | 15 | 13 | 12 | 11 | 11 | 8 - 3\* | 3 - 5\* | 3\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.03g/L(IV)** | 15 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 12 - 1\* | 1 - 11\* | 1 | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.03g/L(V)** | 15 | 13 | 13 | 13 | 12 | 12 | 12 | 12 | 10 - 2\* | 2 - 8\* | 1 - 1\* | 1 | 1\* |  |  |  |  |  |  |  |  |  |
| **0.03g/L(VI)** | 15 | 15 | 15 | 15 | 14 | 13 | 12 | 12 | 6 - 6\* | 1 - 5\* | 1\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(I)** | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 13 - 1\* | 7 - 5\* | 7\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(II)** | 15 | 15 | 15 | 15 | 14 | 14 | 12 | 12 | 8 - 4\* | 2 - 6\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(III)** | 15 | 13 | 12 | 12 | 12 | 11 | 11 | 11 | 9 - 2\* | 3 - 6\* | 1 - 2\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(IV)** | 15 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 6 - 5\* | 3 - 4\* | 3\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(V)** | 15 | 15 | 12 | 12 | 12 | 11 | 11 | 11 | 8 - 3\* | 3 - 5\* | 1 - 2\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.035g/L(VI)** | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 13 - 1\* | 9 - 4\* | 5 - 4\* | 5\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.04g/L(I)** | 15 | 15 | 14 | 14 | 13 | 13 | 11 | 9 - 2\* | 4 - 5\* | 1 - 3\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.04g/L(II)** | 15 | 15 | 14 | 14 | 13 | 12 | 12 | 12 | 7 - 4\* | 4 - 3\* | 1 - 2\* | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| **0.04g/L(III)** | 15 | 14 | 14 | 14 | 14 | 13 | 12 | 12 | 10 - 2\* | 3 - 7\* | 3\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.04g/L(IV)** | 15 | 14 | 13 | 13 | 13 | 13 | 13 | 13 | 6 - 6\* | 2 - 4\* | 1 - 1\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.04g/L(V)** | 15 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 9 - 3\* | 2 - 7\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.04g/L(VI)** | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 6 - 8\* | 1 - 5\* | 1\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(I)** | 15 | 14 | 13 | 13 | 13 | 11 | 9 | 9 | 5 - 4\* | 5\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(II)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 - 1\* | 7 - 6\* | 1 - 6\* | 1\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(III)** | 15 | 14 | 13 | 13 | 13 | 13 | 12 | 11 - 1\* | 4 - 6\* | 4\* |  |  |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(IV)** | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 7 - 8\* | 4 - 3\* | 1 - 3\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(V)** | 15 | 15 | 14 | 13 | 12 | 12 | 12 | 12 | 7 - 4\* | 2 - 5\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.045g/L(VI)** | 15 | 15 | 14 | 14 | 14 | 14 | 13 | 14 | 7 - 7\* | 1 - 5\* | 1 | 1 | 1\* |  |  |  |  |  |  |  |  |  |
| **0.05g/L(I)** | 15 | 15 | 15 | 14 | 13 | 13 | 13 | 13 | 13 | 10 - 3\* | 2 - 7\* | 1 - 1\* | 1\* |  |  |  |  |  |  |  |  |  |
| **0.05g/L(II)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 13 - 1\* | 11 - 2\* | 3 - 8\* | 1 - 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.05g/L(III)** | 15 | 15 | 15 | 14 | 13 | 12 | 12 | 12 | 9 - 3\* | 2 - 7\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.05g/L(IV)** | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 13 - 2\* | 3 - 9\* | 2 - 1\* | 2\* |  |  |  |  |  |  |  |  |  |  |
| **0.05g/L(V)** | 15 | 12 | 12 | 10 | 10 | 10 | 10 | 9 | 8 - 1\* | 4 - 4\* | 1 - 3\* | 1 | 1\* |  |  |  |  |  |  |  |  |  |
| **0.05g/L(VI)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 - 1\* | 9 - 2\* | 3 - 5\* | 3 | 3\* |  |  |  |  |  |  |  |  |  |
| **0.1g/L(I)** | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 9 - 3\* | 3 - 6\* | 1 - 2\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.1g/L(II)** | 15 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 7 - 5\* | 3 - 3\* | 1 - 2\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.1g/L(III)** | 15 | 15 | 13 | 13 | 12 | 12 | 12 | 12 | 11 - 1\* | 4 - 6\* | 4\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.1g/L(IV)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 10 - 3\* | 4 - 6\* | 1 - 3\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.1g/L(V)** | 15 | 14 | 13 | 13 | 12 | 12 | 12 | 12 | 11 - 1\* | 3 - 6\* | 3\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.1g/L(VI)** | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 10 - 3\* | 2 - 8\* | 2\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.15g/L(I)** | 15 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 11 | 5 - 5\* | 2 - 3\* | 1 - 1\* | 1\* |  |  |  |  |  |  |  |  |  |
| **0.15g/L(II)** | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 7 - 7\* | 1 - 5\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.15g/L(III)** | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 13 - 1\* | 6 - 7\* | 6\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.15g/L(IV)** | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 12 - 2\* | 7 - 5\* | 1 - 6\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.15g/L(V)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 7 - 6\* | 1 - 4\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.15g/L(VI)** | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 10 - 4\* | 3 - 7\* | 3\* |  |  |  |  |  |  |  |  |  |  |
| **0.2g/L(I)** | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 8 - 5\* | 2 - 5\* | 2\* |  |  |  |  |  |  |  |  |  |  |
| **0.2g/L(II)** | 15 | 15 | 14 | 13 | 12 | 12 | 12 | 12 | 12 | 7 - 4\* | 1 - 6\* | 1 | 1\* |  |  |  |  |  |  |  |  |  |
| **0.2g/L(III)** | 15 | 15 | 12 | 12 | 11 | 10 | 10 | 10 | 10 | 5 - 5\* | 3 - 2\* | 2\* |  |  |  |  |  |  |  |  |  |  |
| **0.2g/L(IV)** | 15 | 15 | 15 | 13 | 12 | 11 | 11 | 9 | 9 | 4 - 4\* | 4\* |  |  |  |  |  |  |  |  |  |  |  |
| **0.2g/L(V)** | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 6 - 7\* | 1 - 5\* | 1\* |  |  |  |  |  |  |  |  |  |  |
| **0.2g/L(VI)** | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 9 - 5\* | 7\* |  |  |  |  |  |  |  |  |  |  |  |