**Table S1.** *Spodoptera frugiperda* growth parameters developing on artificial diet treated with sublethal concentrations (LC25 or LC50) of different growth regulating insecticides of synthetic and botanical origin.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatments | Fertility life table parameter*a,b* | | |
| *T* (days) | *Ro* (♀/♀) | *rm*(♀/♀\*day) |
| **Agroneem** |  |  |  |
| *LC25* | 51.2 ± 0.39 a | 154.6 ± 4.11 a | 0.094 ± 0.003 a |
| *LC50* | 61.8 ± 0.59 b | 91.1 ± 2.10 b | 0.073 ± 0.003 b |
| **Azact** |  |  |  |
| *LC25* | 44.6 ± 0.39 a | 100.6 ± 6.10 a | 0.108 ± 0.002 a |
| *LC50* | 60.3 ± 0.51 b | 84.9 ± 3.11 b | 0.071 ± 0.003 b |
| **Azamax** |  |  |  |
| *LC25* | 75.2 ± 1.28 a | 84.8 ± 3.12 a | 0.063 ± 0.001 a |
| *LC50* | 80.9 ± 0.44 b | 45.4 ± 3.12 b | 0.045 ± 0.005 b |
| **Fitoneem** |  |  |  |
| *LC25* | 52.9 ± 0.53 a | 130.1 ± 2.10 a | 0.094 ± 0.005 a |
| *LC50* | 59.5 ± 0.54 b | 59.2 ± 2.67 b | 0.068 ± 0.002 b |
| **Certero** |  |  |  |
| *LC25* | 47.7 ± 0.33 a | 138.0 ± 1.17 a | 0.085 ± 0.003 a |
| *LC50* | 55.0 ± 0.93 b | 51.4 ± 3.14 b | 0.067 ± 0.002 b |
| **Intrepid** |  |  |  |
| *LC25* | 56.3 ± 0.32 a | 135.7 ± 3.89 a | 0.086 ± 0.003 a |
| *LC50* | 62.4 ± 0.46 b | 54.7 ± 2.80 b | 0.061 ± 0.001 b |
| **Match** |  |  |  |
| *LC25* | 66.0 ± 0.47 a | 139.8 ± 4.24 a | 0.085 ± 0.001 a |
| *LC50* | 69.4 ± 0.39 b | 54.3 ± 2.90 b | 0.064 ± 0.006 b |
| **Mimic** |  |  |  |
| *LC25* | 51.0 ± 0.46 a | 133.8 ± 1.80 a | 0.088 ± 0.002 a |
| *LC50* | 55.8 ± 1.04 b | 56.3 ± 2.10 b | 0.078 ± 0.004 b |

*aT* = mean length of a generation (d); *Ro* = net reproductive rate (females per female per generation); and *rm* = intrinsic rate of population increase (per day).

*b*Means ± SE followed by the same letter in each column and concentration are not significantly different (*t-*test for pairwise group comparisons, *P* > 0.05).