Additional file 1:

**Table 1: Detailed results of the CDC bottle assay for different concentrations during determination of diagnostic concentrations for chlorfenapyr insecticide.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Strain** | **Insecticide** | **Dose (µg/ml)** | **Number tested** | **Knockdown time**  **(0-60 minutes)** | | | | | | | **Mortality** | | |
| **0** | **10** | **20** | **30** | **40** | **50** | **60** | **24 hrs** | **48 hrs** | **72 hrs** |
| Kisumu | Chlorfenapyr | 10 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 93 | 101 |
| Kisumu | Chlorfenapyr | 20 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 163 | 170 |
| Kisumu | Chlorfenapyr | 30 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 329 | 358 | 364 |
| Kisumu | Chlorfenapyr | 40 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 367 | 381 | 387 |
| Kisumu | Chlorfenapyr | 50 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 391 | 400 | 400 |
| Kisumu | Chlorfenapyr | 60 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 394 | 400 | 400 |
| Kisumu | Chlorfenapyr | 70 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 397 | 400 | 400 |
| Kisumu | Chlorfenapyr | 80 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 397 | 400 | 400 |
| Kisumu | Chlorfenapyr | 90 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 393 | 400 | 400 |
| Kisumu | Chlorfenapyr | 100 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 387 | 398 | 400 |
| **Table 2: Detailed results of the CDC bottle assay performed for different concentrations during determination of diagnostic concentrations for clothianidin insecticides.** | | | | | | | | | | | | | |
| **Strain** | **Insecticide** | **Dose (µg/ml)** | **Number tested** | **Knockdown time**  **(0-60 minutes)** | | | | | | | **Mortality** | | |
| **0** | **10** | **20** | **30** | **40** | **50** | **60** | **24 hrs** | **48 hrs** | **72 hrs** |
| Kisumu | Clothianidin | 50 | 400 | 0 | 0 | 0 | 0 | 12 | 20 | 43 | 311 | 346 | 359 |
| Kisumu | Clothianidin | 100 | 400 | 0 | 0 | 0 | 0 | 12 | 20 | 46 | 320 | 346 | 376 |
| Kisumu | Clothianidin | 150 | 400 | 0 | 0 | 0 | 0 | 36 | 100 | 179 | 386 | 397 | 400 |
| Kisumu | Clothianidin | 200 | 400 | 0 | 0 | 0 | 11 | 58 | 181 | 243 | 391 | 397 | 400 |
| Kisumu | Clothianidin | 250 | 400 | 0 | 0 | 0 | 26 | 73 | 138 | 209 | 398 | 400 | 400 |
| **Table 3: Control results for both chlorfenapyr and clothianidin insecticides respectively.** | | | | | | | | | | | | | |
| **Kisumu** | **treatment** | **Dose(ml)** | **Number tested** | **Knockdown time**  **(0 – 60 minutes)** | | | | | | | **Mortality** | | |
| **0** | **10** | **20** | **30** | **40** | **50** | **60** | **24 hrs** | **48 hrs** | **72 hrs** |
| Kisumu | Absolute ethanol | 1ml | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 12 | 12 |
| Kisumu | Absolute ethanol | 1ml | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 13 | 15 |