

Table 4 Log-probit analysis, regression analysis, estimation of synergistic factor and co-toxicity coefficient of *Asparagus setaceus* and *Cuscuta chinensis* seed extracts in different combination ratios exposed separately on different larval instars of *Cx. quinquefasciatus*

| Plant ratio | Instar | Exposure | Regression equation | LC ₅₀ ± SE (ppm) | Fiducial limits(ppm) | R ² | SF | CTC | Type of action |
|----------------|--------|----------|---------------------|-----------------------------|----------------------|----------------|--------|---------|----------------|
| AS:CC (1:1) | First | 24 h | Y=0.0267x+14.667 | 51.586±31.488 | 84.049-8.731 | 0.8889 | 1.3701 | 137.019 | S |
| | | 48 h | Y=0.0183x+17.333 | 27.873±104.875 | 64.623-0.022 | 0.6302 | 2.4642 | 246.428 | S |
| | | 72 h | Y=0.0217x+17.111 | 35.897±37.752 | 68.227-1.87 | 0.7369 | 1.4046 | 140.468 | S |
| | Second | 24 h | Y=0.0267x+13.889 | 54.749±37.111 | 89.725-7.462 | 0.8610 | 1.3603 | 136.031 | S |
| | | 48 h | Y=0.0183x+16.556 | 28.334±337.922 | 68.466-0.001 | 0.6823 | 2.7311 | 273.113 | S |
| | | 72 h | Y=0.0183x+17.333 | 27.873±104.874 | 64.622-0.022 | 0.6722 | 2.9510 | 295.102 | S |
| | Third | 24 h | Y=0.0233x+13.333 | 54.219±84.323 | 96.871-0.795 | 0.9074 | 1.6738 | 167.389 | S |
| | | 48 h | Y=0.02x+15 | 39.591±162.511 | 82.147-0.021 | 0.7500 | 2.0137 | 201.376 | S |
| | | 72 h | Y=0.0183x+16.111 | 30.943±379.719 | 72.443-0.0002 | 0.8561 | 1.6033 | 160.336 | S |
| | Fourth | 24 h | Y=0.0217x+10.889 | 88.454±979.589 | 142.756-0.001 | 0.7922 | 1.7199 | 171.995 | S |
| | | 48 h | Y=0.0217x+11.556 | 75.054±792.431 | 127.095-0.001 | 0.8564 | 1.5194 | 151.945 | S |
| | | 72 h | Y=0.0183x+13.556 | 44.622±38.828 | 208.471-9.551 | 0.8561 | 1.9430 | 194.305 | S |
| AS:CC (2:1) | First | 24 h | Y=0.0233x+15.556 | 42.452±42.611 | 77.451-2.421 | 0.9188 | 1.6650 | 166.501 | S |
| | | 48 h | Y=0.02x+16.667 | 33.502±63.631 | 69.797-0.291 | 0.8571 | 2.0502 | 205.023 | S |
| | | 72 h | Y=0.0183x+17.667 | 27.911±77.976 | 63.301-0.066 | 0.8403 | 1.8066 | 180.660 | S |
| | Second | 24 h | Y=0.0283x+14.444 | 46.661±60.087 | 85.619-1.286 | 0.8855 | 1.5961 | 159.610 | S |
| | | 48 h | Y=0.0217x+15.667 | 38.593±61.829 | 76.107-0.566 | 0.8802 | 2.0051 | 200.513 | S |
| | | 72 h | Y=0.0183x+16.667 | 28.722±222.456 | 68.185-0.001 | 0.6722 | 2.8637 | 286.379 | S |
| | Third | 24 h | Y=0.0217x+14.222 | 47.476±91.086 | 89.438-0.361 | 0.6671 | 1.9116 | 191.164 | S |
| | | 48 h | Y=0.0217x+14.222 | 45.257±91.258 | 86.781-0.294 | 0.6778 | 1.7616 | 176.165 | S |
| | | 72 h | Y=0.02x+15.667 | 36.291±109.022 | 76.384-0.06 | 0.6667 | 1.3670 | 136.708 | S |
| | Fourth | 24 h | Y=0.02x+12 | 67.193±39.397 | 200.217-22.551 | 0.7500 | 2.2641 | 226.417 | S |
| | | 48 h | Y=0.025x+11.667 | 70.834±93.831 | 116.289-1.599 | 0.8523 | 1.6099 | 160.997 | S |
| | | 72 h | Y=0.025x+12.667 | 58.871±79.212 | 101.755-1.333 | 0.8152 | 1.4752 | 147.526 | S |
| AS:CC (1:2) | First | 24 h | Y=0.0217+17.111 | 35.897±37.753 | 68.227-1.871 | 0.8741 | 1.9690 | 196.905 | S |
| | | 48 h | Y=0.0183x+18.778 | 30.247±38.927 | 61.1071-0.9198 | 0.8326 | 2.2708 | 227.086 | S |
| | | 72 h | Y=0.015x+20.222 | 27.453±41.874 | 57.2324-0.5011 | 0.8679 | 1.8367 | 183.673 | S |
| | Second | 24 h | Y=0.0267x+15.444 | 47.518±28.675 | 78.209-8.314 | 0.7967 | 1.5673 | 156.732 | S |
| | | 48 h | Y=0.0217x+17.333 | 35.824±35.407 | 67.376-2.198 | 0.8284 | 2.1601 | 216.011 | S |
| | | 72 h | Y=0.02x+18.333 | 33.569±34.192 | 64.0328-1.9217 | 0.7059 | 1.9392 | 193.922 | S |
| | Third | 24 h | Y=0.0283x+14.222 | 55.905±28.248 | 87.161-12.973 | 0.7423 | 1.6234 | 162.341 | S |
| | | 48 h | Y=0.0283x+16.333 | 40.199±35.503 | 72.714-3.206 | 0.7101 | 1.9833 | 198.330 | S |
| | | 72 h | Y=0.0217x+17.222 | 36.567±35.303 | 68.2633-2.3752 | 0.6094 | 1.8416 | 184.166 | S |
| | Fourth | 24 h | Y=0.0283x+11.444 | 74.133±48.078 | 113.931-10.427 | 0.9107 | 2.0522 | 205.221 | S |
| | | 48 h | Y=0.0283x+12.444 | 63.707±42.641 | 101.217-8.654 | 0.9107 | 1.7900 | 179.008 | S |
| | | 72 h | Y=0.025x+13.667 | 52.288±55.597 | 91.431-2.43 | 0.7813 | 1.6581 | 165.818 | S |

Note: LC₅₀ = lethal concentration that kills 50% of tested organism, SF, synergistic factor, CTC, co-toxicity coefficient