**Table 2. The maximum values of the tested concentrations (mg/L) at which no effect on the activities of enzyme-based assay systems and *P. phosphoreum* bioluminescence was found.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ****Assay System**** | | | ****Fenvalerate**** | | ****Deltamethrin**** | | ****Cypermethrin**** | |
| **AIa** | **AIf**  **Sempay** | **AIa** | **AIf**  **Delcid** | **AIa** | **AIf**  **Briz** |
|
| ****In Vitro Assay Systems**** | ****Single-Enzyme Assay Systems**** | ****Trypsin**** | **x** | **\*** | **x** | ****400**** | ****0.15**** | **\*** |
| ****ALP**** | **x** | **\*** | **x** | ****70**** | ****46**** | ****1250**** |
| ****BChE**** |  | ****520**** |  |  | ****190**** |  |
| ****LDH**** |  |  |  |  |  |  |
| ****ADH**** | **4.1** |  |  |  |  |  |
| ****Red**** | **3.6** |  | ****5.5**** |  | ****5.5**** |  |
| ****Multi-Enzyme Assay Systems**** | ****Red + Luc**** |  |  |  |  |  |  |
| ****ADH + Red + Luc**** |  |  |  |  |  |  |
| ****LDH + Red + Luc**** |  |  |  |  |  |  |
| ****In Vivo Assay System**** | | *****P. phosphoreum***** | ****500**** | **\*** | ****400**** | **\*** | ****200**** | **\*** |
| ****MRL RUS mg/kg**** [1] | | |  |  |  |  |  |  |

**Table 2 Continued.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ****Assay System**** | | | ****Imidacloprid**** | | | |
| **AIa** | **AIf** | | |
| ****Biotlin**** | ****Corado**** | ****Confidor****  ****Extra**** |
| ****In Vitro Assay Systems**** | ****Single-Enzyme Assay Systems**** | ****Trypsin**** | ****10**** | **\*** | **\*** | **7** |
| ****ALP**** | ****10**** | **\*** | **\*** | \* |
| ****BChE**** | ****2700**** |  | ****3800**** |  |
| ****LDH**** | ****2700**** | ****2100**** |  |  |
| ****ADH**** | **2.4** |  |  |  |
| ****Red**** | **5.5** |  | ****0.6**** |  |
| ****Multi-Enzyme Assay Systems**** | ****Red + Luc**** | **20** |  |  |  |
| ****ADH + Red + Luc**** | **18.7** |  |  |  |
| ****LDH + Red + Luc**** | **20** |  |  |  |
| ****In Vivo Assay System**** | | *****P. phosphoreum***** | ****50**** |  |  |  |
| ****MRL RUS mg/kg**** [1] | | |  |  | | |

**Table 2 Continued.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ****Assay System**** | | | ****Malathion**** | | | ****Diazinon**** | | | ****Glyphosate**** | | | |
| **AIa** | | **AIf**  **Aliot** | **AIa** | | **AIf**  **Muravyed** | **AIa** | | **AIf**  **Liquidator** | **AIf**  **Tornado**  **Extra** |
|
| ****In Vitro Assay Systems**** | ****Single-Enzyme Assay Systems**** | ****Trypsin**** | **\*** | | **\*** | **\*** | | \* |  | |  |  |
| ****ALP**** | **\*** | | **\*** | **\*** | | \* |  | |  |  |
| ****BChE**** |  | |  | ****3000**** | |  |  | |  |  |
| ****LDH**** |  | |  | ****3000**** | |  | ****850**** | |  |  |
| ****ADH**** | **\*** | | **\*** |  | |  |  | |  |  |
| ****Red**** | **\*** | | **\*** | **\*** | | \* | ****100**** | |  |  |
| ****Multi-Enzyme Assay Systems**** | ****Red + Luc**** | **\*** | |  |  | |  |  | |  |  |
| ****ADH + Red + Luc**** | **\*** | |  |  | |  |  | |  |  |
| ****LDH + Red + Luc**** | **\*** | |  |  | |  |  | |  |  |
| ****In Vivo Assay System**** | | *****P. phosphoreum***** | **\*** | | **\*** | ****55**** | | \* | ****500**** | |  |  |
| ****MRL RUS mg/kg**** [1] | | |  |  | |  |  | |  |  | | |

«\*» The parameter could not be determined because of physico-chemical properties of the AIa and AIf or interaction of the AIa and AIf with the reaction mixture components.

«x» A stimulating effect of the active ingredient on parameters of assay systems was observed in the tested concentration range.

[1] *SanPiN 1.2.3685‐21*; Hygienic Standards and Requirements for Ensuring the Safety and (or) Harmlessness of Environmental Factors for Humans (for Russian Federation). 2021. Approved by the resolution of the Chief state sanitary physician of the Russian Federation of 28.01.2021 N 2. Russia, Moscow.