

THAMNOTOXKIT F

THAMNOCEPHALUS TOXICITY TEST

24 h mortality test with the freshwater crustacean *Thamnocephalus platyurus*

Conform with ISO Standard 14380

The THAMNOTOXKIT F contains all the materials to perform **six acute toxicity tests**

The test organisms are included in the kit as cysts (dormant eggs) which can easily be hatched on demand in less than 24h, to supply the live biota for the conduct of the toxicity test

Standardised and culture-independent small-scale bioassays with the freshwater crustacean *Thamnocephalus platyurus*

THAMNOTOXKIT F applicable for toxicity screening of chemicals - effluents - sediment pore waters and elutriates - surface and groundwaters - wastewaters - biotoxins and other research applications



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THAMNOTOXKIT F

24 h *Thamnocephalus* Toxicity Test For Toxicity Screening of Chemicals - Effluents - Sediment pore water and elutriates - Surface and Groundwaters - Wastewaters - Biotoxins

CONTENTS OF THE THAMNOTOXKIT F

The THAMNOTOXKIT F contains all materials to perform six complete acute toxicity tests with the freshwater crustacean *Thamnocephalus platyurus*.

- Tubes with cysts, concentrated hatching and toxicant dilution medium, hatching and test containers and micropipettes for the transfer of the organisms
- Detailed Standard Operating Procedure, data scoring sheets
- Quality Control specification sheet

REPRODUCIBILITY

COST-EFFECTIVENESS

USER-FRIENDLINESS

- Cysts can be hatched on demand, eliminating the cost of continuous culturing and maintenance of test organisms.
- Cysts of high quality produced in strictly controlled conditions preclude variability associated with recruitment/maintenance of live stocks in conventional bioassays.
- Shelf life of cysts is guaranteed for several months when stored properly, reducing test scheduling constraints.
- The Thamnotoxkit F has easy to follow instructions for the conduct of the toxicity test.
- Minimal equipment and space is needed for the test performance: dissection microscope - incubator with lights - conventional laboratory glassware.

SENSITIVITY

VALIDATION

- The Thamnotoxkit test is a very sensitive assay. The *Thamnocephalus* larvae are in many cases more sensitive than other crustacean test species in acute bioassays. They are specifically sensitive to biotoxins produced by blue-green algae.
- The Thamnotoxkit assay is used in many environmental laboratories and research institutes worldwide and is validated by international interlaboratory comparisons.
- The THAMNOTOXKIT F strictly adheres to the protocols for regulatory testing prescribed by international organisations; ISO Standard 14380.
- A substantial number of publications, posters, reports and reviews can be found on www.microbiotests.com