

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



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