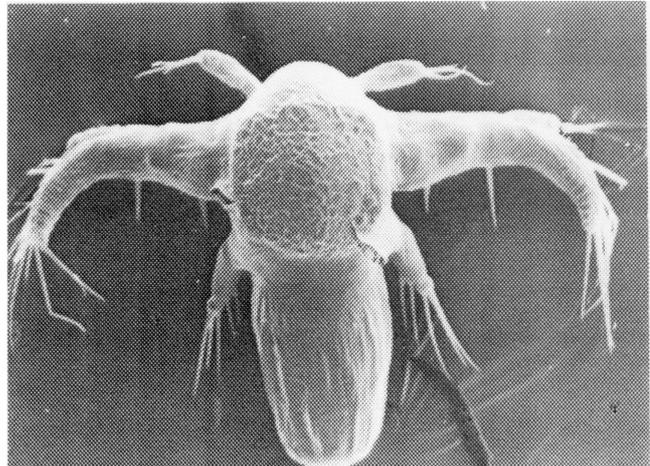


THAMNOTOXKIT F

MICROBIOTESTS

With the
crustacean
Thamnocephalus
platyurus



Cost-effective,
culture/maintenance free*
bioassays

* *Test organisms are included in the kits as “dormant eggs (cysts)” which can be hatched “on demand”*



Each Toxkit contains
all the materials for
performance of 6
complete bioassays

THAMNOTOXKIT F

24h Microbiotest For Toxicity Screening of Pure Compounds - Effluents - Sediments - Surface and Ground Waters - Wastewaters - Biotoxins

*Each THAMNOTOXKIT F contains all the materials necessary to perform six acute toxicity tests with the freshwater crustacean *Thamnocephalus platyurus*. Easy to follow instructions and detailed illustrations are provided in the kits for the conduct of range-finding and definitive tests. The test organisms are included in the kits as « dormant eggs (cysts)» which can easily be hatched on demand, in less than 24h, to supply the live biota for the conduct of the assays.*

Test criterion

- The THAMNOTOXKIT F is a 24h assay based on mortality of the test organisms, with calculation of the 24hLC50.

Reproducibility

- Cysts of high quality produced in strictly controlled conditions preclude variability associated with recruitment/ maintenance of live stocks in conventional bioassays.
- Highly uniform quality of the test medium is achieved by simple dilution of concentrated solutions of selected salts with deionized water.
- Standardized microplate test containers constructed of biologically inert materials ensure uniform exposure conditions.
- A Quality Control Test with a reference chemical is described in detail, for accuracy and reproducibility check.

Cost-Effectiveness

- Cysts can be hatched on demand, eliminating the need and the costs of continuous culturing and maintenance of test organisms.
- Minimal equipment needed for test performance: dissecting microscope – small incubator – conventional laboratory glassware.
- Shelf-life of cysts guaranteed for several months when stored properly, reducing test scheduling constraints.

Contents

- Tubes with cysts, concentrated hatching and toxicant dilution medium, hatching and test containers and micropipettes for the transfer of the organisms.
- Detailed Standard Operational Procedure brochure, abbreviated Bench Protocol, data scoring sheets and graphical LC50 calculation sheets.
- Specification sheet with batch number of the cysts and the media.

User-Friendliness

- Simple handlings and scorings.
- Total performance time of the assay approximately 1 hour.
- A floppy disc for easy Toxkit data treatment can be obtained on demand.

Sensitivity

- Very sensitive assay.
- In many cases more sensitive than other crustacean test species in acute assays.
- Specifically sensitive to biotoxins produced by blue-green algae.

Validation

- The Thamnotoxkit is used in many laboratories worldwide for routine screening of chemicals and environmental samples.
- **The THAMNOTOXKIT microbiotest strictly adheres to the protocol of ISO standard 14380.**
- A substantial number of publications, reports and posters can be found in the section “Publications” on the website www.microbiotests.be.

N.B. All the materials included in the THAMNOTOXKIT are also available separately.