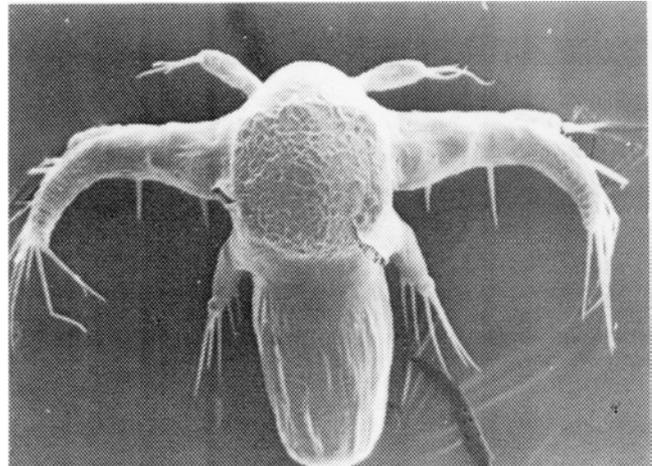


THAMNOTOXKIT F™

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 FTM

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

- Used in many laboratories worldwide for routine screening of chemicals and environmental samples.
- Substantial number of publications reporting data for various uses.
- Acute microbiotest with *Thamnocephalus platyurus* endorsed or taken into consideration for regulatory testing in several countries.

A list of selected references is available upon request.

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

THAMNOTOXKIT F is a registered trademark of MicroBioTests Inc., Mariakerke (Gent), Belgium.