OSTRACODTOXKIT F

OSTRACOD SEDIMENT TOXICITY TEST

6 days mortality and growth inhibition test with the benthic freshwater ostracod

*Heterocypris incongruens*

Conform with ISO Standard 14371

The OSTRACODTOXKIT F contains all the materials to perform **three up to five chronic direct contact sediment toxicity tests**

The test organisms are included in the kit as **cysts** (dormant eggs) which can easily be hatched on demand in less than 48h, to supply the live biota for the conduct of the toxicity test

Standardised and culture-independent small-scale bioassays with the freshwater ostracod crustacean *Heterocypris incongruens*

OSTRACODTOXKIT F applicable for toxicity screening of contaminated river sediments - soils - solid wastes and other research applications

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CONTENTS OF THE OSTRACODTOXKIT F

The OSTRACODTOXKIT F contains all materials to perform 3 to 5 complete chronic toxicity tests with the freshwater ostracod *Heterocypris incongruens*.

• Tubes with cysts, concentrated hatching and test medium, hatching and test containers, reference sediment, glass micropipettes for the transfer of the organisms, algal food, micrometer slips, wide mouth pipettes and a microsieve.
• 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.
• Live (algal) food for the test organisms is easily obtained from algal beads included in the kit.
• The Ostracodtoxkit 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 - tabletop centrifuge.

SENSITIVITY VALIDATION

• The sensitivity of the Ostracodtoxkit F compares favourably with other direct contact sediment toxicity tests with e.g. the amphipod *Hyalella azteca* and the midge larvae *Chironomus riparius*.
• The test is used in many environmental laboratories and research institutes worldwide and has been validated by an extensive international interlaboratory comparison.
• The OSTRACODTOXKIT F strictly adheres to the protocols for regulatory testing prescribed by international organisations; ISO Standard 14371.
• A substantial number of publications, posters, reports and reviews can be found on www.microbiotests.com