International Standard

ISO 14669

Water quality — Determination of acute lethal toxicity to marine copepods (Copepoda, Crustacea)

Qualité de l'eau — Détermination de la toxicité létale aiguë vis-à-vis de copépodes marins (Copepoda, Crustacea)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 5, *Biological methods*.

This second edition cancels and replaces the first edition (ISO 14669:1999), which has been technically revised.

The main changes are as follows:

— aqueous extracts (pore water, elutriates, eluates and leachates) have been added to the scope;

— possibility of using copepods from hatcheries has been included;

— informative Annexes A, B and C were amended;

— informative Annex D (culture and test media) was added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Water quality — Determination of acute lethal toxicity to marine copepods (Copepoda, Crustacea)

1 Scope

This document describes a method for the determination of the acute toxicity to one of three specified species of marine copepod (Copepoda, Crustacea). This document is applicable to:

a) industrial or sewage effluents, treated or untreated, after decantation, filtration or centrifugation if necessary;

b) marine or estuarine waters;

c) aqueous extracts (pore water, elutriates, eluates and leachates) from sediments;

d) chemical substances which are soluble, or which can be maintained as a stable suspension or dispersion, under the conditions of the test.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5667-1, *Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques*

ISO 5667-15, *Water quality — Sampling — Part 15: Preservation and handling of samples of sludge, sediment and suspended matter*

ISO 5667-16, *Water quality — Sampling — Part 16: Guidance on biotesting of samples*

ISO 5667-19, *Water quality — Sampling — Part 19: Guidance on sampling of marine sediments*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
50 % lethal concentration
LC50
concentration at which 50 % of the test organisms would die in an experiment

[SOURCE: ISO 13073-3:2016, 2.28]

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