ISO 14669:2026-06 (E)

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

Contents

Page

Foreword ... iv

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Principle ... 2

5 Test environment ... 2

6 Reagents and materials ... 2

7 Apparatus ... 4

8 Sampling, treatment and preparation of samples ... 4
- 8.1 Sampling and storage of samples ... 4
- 8.2 Preparation of solutions of substances to be tested ... 4
  - 8.2.1 Preparation of stock solutions ... 4
  - 8.2.2 Preparation of aqueous extracts from sediments ... 4
  - 8.2.3 Preparation of test solutions ... 5

9 Procedure ... 5
- 9.1 Preliminary test ... 5
- 9.2 Definitive test ... 5
- 9.3 General procedure ... 5
- 9.4 Limit test ... 6
- 9.5 Check of sensitivity of copepods and conformity with the procedure ... 6

10 Calculation of the LC50 ... 7

11 Validity of results ... 7

12 Expression of results ... 7

13 Performance data ... 7

14 Test report ... 7

Annex A (informative) **Example of determination of acute lethal toxicity of a chemical substance to a marine copepod** ... 9

Annex B (informative) **Culture methods for marine copepods *Acartia tonsa*, *Tisbe battagliai* and *Nitocra spinipes*** ... 11

Annex C (informative) **Precision data** ... 16

Annex D (informative) **Defined culture and test media** ... 17

Bibliography ... 19