ISO 17244:2025-07 (E)

Water quality - Determination of the toxicity of water samples on the embryo-larval development of the Japanese oyster (Magallana gigas) and the blue mussel (Mytilus edulis or M. galloprovincialis)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Principle ... **2**

5 Test organisms and seawater ... **3**
5.1 Spawning stock or mature bivalves ... 3
5.2 Reference seawater ... 3
5.2.1 General ... 3
5.2.2 Natural seawater ... 3
5.2.3 Artificial seawater ... 4
5.2.4 Hypersaline brine ... 4

6 Equipment ... **4**

7 Reference substance ... **5**

8 Test procedure ... **5**
8.1 Collection, preparation and preservation of aqueous samples ... 5
8.2 Preparation of test samples ... 6
8.2.1 Chemicals ... 6
8.2.2 Aqueous samples ... 6
8.2.3 sediment or dredged material ... 6
8.3 Selection of concentration range ... 6
8.4 Collecting gametes ... 6
8.4.1 General ... 6
8.4.2 Thermal stimulation ... 7
8.4.3 Stripping the gametes ... 8
8.5 Measurement of egg density ... 8
8.6 Fertilization and inoculation of fertilized eggs ... 8
8.7 Incubation ... 9
8.8 Observation ... 9
8.9 Analytical measurements ... 10
8.10 Disposal of adults ... 10

9 Expression of results ... **10**

10 Validity criteria ... **12**

11 Test report ... **13**

Annex A (informative) **Overview of the test applied to the Japanese oyster *Magallana gigas*** ... **14**

Annex B (informative) **Performance data** ... **15**

Annex C (informative) **Protocol to perform the test in direct contact with sediment** ... **21**

Bibliography ... **23**