ISO 17244:2015-09 (E)

Water quality - Determination of the toxicity of water samples on the emb ryo-larval development of Japanese oyster (Crassostrea gigas) and mussel (Mytilus edulis or Mytilus galloprovincialis)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Test organisms and seawater 2
5.1 Spawning stock or mature bivalves 2
5.2 Reference seawater 3
5.2.1 Natural seawater 3
5.2.2 Synthetic seawater 3
5.2.3 Hypersaline brine (HSB) 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 5
8.2.1 Chemicals 5
8.2.2 Aqueous samples 5
8.3 Selection of concentration/dilution range 6
8.4 Collecting gametes 6
8.4.1 General 6
8.4.2 Thermal stimulation 6
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

9 Expression of results 10

10 Validity criteria 12

11 Test report 12

Annex A (informative) Overview of the test applied to the Japanese oyster Crassostrea gigas 13

Annex B (informative) Performance data 14

Bibliography **22**