

ISO 6341:2012-10 (E)

Water quality - Determination of the inhibition of the mobility of *Daphnia magna* Straus (Cladocera, Crustacea) - Acute toxicity test

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Test environment	2
6 Reagents, test organisms and media	3
7 Apparatus and materials	4
8 Treatment and preparation of samples	5
8.1 Special precautions for sampling, transportation, storage and treatment of water, effluent, or aqueous extract samples to be tested	5
8.2 Preparation of solutions of substances to be tested	6
9 Procedure	6
9.1 General	6
9.2 Preliminary test	7
9.3 Definitive test	7
9.4 Check of the sensitivity of the <i>Daphnia magna</i> and conformity with the procedure	7
9.5 Limit test	8
10 Interpretation and validity of the results	8
10.1 Estimation of the EC50	8
10.2 Validity criteria	8
11 Expression of results	8
12 Test report	8
Annex A (informative) Preparation of the Elendt M4 medium	10
Annex B (informative) Example of graphical determination of the inhibition of mobility of <i>Daphnia magna</i> by an effluent or stock solution of a substance at a concentration of 1000 mg/l	13
Annex C (informative) General recommendations for stock culturing	16
Annex D (informative) Culturing of <i>Daphnia magna</i> for production of dormant eggs	17
Annex E (informative) Precision data	19
Annex F (informative) Dilution level D -- Preparation of the dilution series for the determination of the LID	20
Bibliography	22