

INTERNATIONAL STANDARD

ISO
6341

Fourth edition
2012-10-15

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

Qualité de l'eau — Détermination de l'inhibition de la mobilité de Daphnia magna Straus (Cladocera, Crustacea) — Essai de toxicité aiguë



Reference number
ISO 6341:2012(E)



Licensee=University of Alberta/5966844001, User=sharabiani, shahramfs
Not for Resale, 12/03/2013 08:36:56 MST

© ISO 2012



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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 1 000 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