

**Vee kvaliteet - Daphnia magna Strausi (Cladocera, Crustacea) liikuvuse pidurdamise määramine - Ägeda toksilisuse test (ISO 6341:2012)**

**Water quality - Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) - Acute toxicity test (ISO 6341:2012)**

## EESTI STANDARDI EESSÕNA

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English Version

Water quality - Determination of the inhibition of the mobility of  
*Daphnia magna* Straus (Cladocera, Crustacea) - Acute toxicity  
test (ISO 6341:2012)

Qualité de l'eau - Détermination de l'inhibition de la mobilité  
de *Daphnia magna* Straus (Cladocera, Crustacea) - Essai  
de toxicité aiguë (ISO 6341:2012)

Wasserbeschaffenheit - Bestimmung der Hemmung der  
Beweglichkeit von *Daphnia magna* Straus (Cladocera,  
Crustacea) - Akuter Toxizitäts-Test (ISO 6341:2012)

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## Foreword

This document (EN ISO 6341:2012) has been prepared by Technical Committee ISO/TC 147 "Water quality" in collaboration with Technical Committee CEN/TC 230 "Water analysis" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6341:1996.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 6341:2012 has been approved by CEN as a EN ISO 6341:2012 without any modification.

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## Introduction

This International Standard specifies a procedure for the determination of the acute toxicity of chemicals, waters and waste waters to the water flea *Daphnia magna* Straus.

The evaluation of harmful effects on water quality has for several years involved the performance of biological tests. Crustaceans are of interest from the ecotoxicological point of view because they are primary consumers and a major component of the zooplankton in aquatic ecosystems.

The test specified in this International Standard involves the determination of the immobilization of the water flea *Daphnia magna* Straus after 24 h or 48 h exposure (depending on the requirement of users or national authorities) to the test sample under the conditions specified in this International Standard.

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

**WARNING** — Persons using this International Standard should be familiar with normal laboratory practice. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

**IMPORTANT** — It is absolutely essential that tests conducted in accordance with this International Standard be carried out by suitably qualified staff.

## 1 Scope

This International Standard specifies a method for the determination of the acute toxicity to *Daphnia magna* Straus (Cladocera, Crustacea).

This method is applicable to:

- chemical substances which are soluble under the conditions of the test, or can be maintained as a stable suspension or dispersion under the conditions of the test;
- industrial or sewage effluents;
- treated or untreated waste water;
- aqueous extracts and leachates;
- fresh water (surface and ground water);
- eluates of fresh water sediment;
- pore water of fresh water sediment.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5667-16:1998, *Water quality — Sampling — Part 16: Guidance on biotesting of samples*

ISO 5814, *Water quality — Determination of dissolved oxygen — Electrochemical probe method*

ISO 10523, *Water quality — Determination of pH*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **control batch**

series of replicates containing control solution

[ISO 20665:2008,<sup>[3]</sup> 3.3]