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**Water quality — Determination of  
biochemical oxygen demand after  $n$   
days (BOD <sub>$n$</sub> ) —**

**Part 1:  
Dilution and seeding method with  
allylthiourea addition**

*Qualité de l'eau — Détermination de la demande biochimique en  
oxygène après  $n$  jours (DBO <sub>$n$</sub> ) —*

*Partie 1: Méthode par dilution et ensemencement avec apport  
d'allylthiourée*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 5, *Biological methods*.

This second edition cancels and replaces the first edition (ISO 5815-1:2003), which has been technically revised. The main changes compared to the previous edition are as follows:

- change of working range: 1 mg/l instead of 3 mg/l as lower limit;
- changes in test procedure;
- in 5.2, option to check seeding water suitability in advance with a CGA control analysis batch;
- in 5.3.2, phosphate buffer solution pH-value: requirement for preparation of a new solution if the pH value is out of the range pH 7 and pH 8;
- in 5.5, range for oxygen consumption of seeded dilution water 0,2 mg/l to 1,5 mg/l instead of upper limit 1,5 mg/l;
- in 5.9, allowable range BOD<sub>5</sub> of the CGA control solution changed to (198 ± 40) mg/l and BOD<sub>7</sub> (206 ± 40) mg/l;
- in 6.5, electrochemical probe option to measure the dissolved oxygen concentration added;
- in 8.4, interferences: subclause on presence of peroxides and peroxide compounds added;
- in 9.4, options to determinate the dilutions elaborated;
- in 9.7, control analysis: elaborated description of procedure;
- in 10.3, "approval of results/validity criteria" added;
- Annex A: title changed and "normative" instead of "informative"
- Annex C "Direct seeding of the analysis batches" added;

— new [Annex D](#) "Performance data" included.

A list of all parts in the ISO 5815 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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