

First edition
2000-04-01

Water quality — Detection and enumeration of bacteriophages —

Part 2: Enumeration of somatic coliphages

*Qualité de l'eau — Détection et dénombrement des bactériophages —
Partie 2: Dénombrement des coliphages somatiques*



Reference number
ISO 10705-2:2000(E)

© ISO 2000

This is a preview of "ISO 10705-2:2000". [Click here to purchase the full version from the ANSI store.](#)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2000

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 22 734 10 79
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

This is a preview of "ISO 10705-2:2000". [Click here to purchase the full version from the ANSI store.](#)

Contents

	Page
1	Scope 1
2	Normative references 1
3	Terms and definitions 1
4	Safety precautions..... 2
5	Principle..... 2
6	Diluent, culture media and reagents..... 2
6.1	Basic materials..... 2
6.2	Diluent..... 2
7	Apparatus and glassware 2
8	Microbiological reference cultures 4
9	Sampling..... 4
10	Preparation of test material 5
10.1	Culturing and maintenance of host strains 5
10.2	Calibration of absorbance measurements for counts of viable microorganisms 6
11	Procedure 6
11.1	Preparation of inoculum cultures 6
11.2	Standard procedure..... 7
11.3	Method for samples with high bacterial background flora 7
11.4	Samples with low phage counts 7
11.5	Presence/absence test 8
11.6	Quality assurance..... 8
12	Expression of results 9
12.1	Plaque count procedures (11.2 to 11.4)..... 9
12.2	Presence/absence test (11.5)..... 9
13	Test report 10
Annex A (normative) Culture media, reagents and diluent..... 11	
Annex B (informative) General description of somatic bacteriophages 14	
Annex C (informative) Culturing of bacteriophage ϕX174..... 15	
Bibliography 16	

This is a preview of "ISO 10705-2:2000". [Click here to purchase the full version from the ANSI store.](#)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 10705 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 10705-2 was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 4, *Microbiological methods*.

ISO 10705 consists of the following parts, under the general title *Water quality — Detection and enumeration of bacteriophages*:

- *Part 1: Enumeration of F-specific RNA bacteriophages*
- *Part 2: Enumeration of somatic coliphages*
- *Part 3: Concentration methods*
- *Part 4: Enumeration of bacteriophages infecting Bacteroides fragilis*

Annex A forms a normative part of this part of ISO 10705. Annexes B and C are for information only.