BS ISO 10718:2015



BSI Standards Publication

Cork stoppers — Characterization of a lowin-germs stopper, through the enumeration of colonyforming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium



...making excellence a habit."

National foreword

This British Standard is the UK implementation of ISO 10718:2015. It supersedes BS ISO 10718:2002 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PRI/81, Cork.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2015. Published by BSI Standards Limited 2015

ISBN 978 0 580 87805 3

ICS 07.100.30; 55.100; 79.100

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2015.

Amendments/corrigenda issued since publication

Date Text affected

INTERNATIONAL STANDARD

BS ISO 10718:2015 ISO 10718

Third edition 2015-10-15

Cork stoppers — Characterization of a low-in-germs stopper, through the enumeration of colony-forming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium

Bouchons en liège — Caractérisation d'un bouchon pauvre en germes par dénombrement des unités formant colonie de levures, de moisissures et de bactéries, extraites en milieu alcoolique et capables de s'y développer



Reference number ISO 10718:2015(E)



© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

BS ISO 10718:2015 ISO 10718:2015(E)

Page

Contents

Fore	word		iv
1	Scope	9	. 1
2	Normative references		. 1
3	Low-in-germs stoppers		. 1
4	Principle		. 1
5	Reagents and cultural media		. 1
6	Apparatus		3
7	Samp	Sampling	
8	Test o	Test condition	
9	Extraction		4
10	Proce 10.1 10.2 10.3	dures General Fast determination using a filtration system and a ready to use sterile culture media 10.2.1 Preparation 10.2.2 Seeding on WLD 10.2.3 Seeding on M-Green Determination using a filtration system to be sterilized and a dehydrated cultural media 10.3.1 Preparation of media 10.3.2 Preparation of filtration system 10.3.3 Seeding on WLD 10.3.4 Seeding on M-Green	.4 .4 .4 .4 .5 .5 .5 .5
11	Blank	Blank test	
12	Incub	Incubation	
13	Expression of results13.1Determination of the cfu number of bacteria per cork stopper13.2Determination of the cfu number of yeasts and moulds per cork stopper		. 5 . 6
14	Test report		. 6

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).

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 87, *Cork*.

This third edition cancels and replaces the second edition (ISO 10718:2002), which has been technically revised.

Cork stoppers — Characterization of a low-in-germs stopper, through the enumeration of colony-forming units of yeasts, moulds and bacteria, capable of both being extracted and growing in alcoholic medium

1 Scope

This International Standard specifies a method to enumerate the colony-forming units of yeasts, moulds and bacteria which can exist on cork stoppers and in an alcoholic solution, and which, under certain conditions, can be extracted during the 3 months following delivery.

This International Standard applies to all types of ready-to-use cork stoppers, submitted to a sanitation process and packaged in properly aseptic and hermetic conditions.

This International Standard specifies the limit values of the colony-forming units of yeasts, moulds and bacteria which can be found on cork stoppers submitted to the test procedures included in this standard.

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 7218, Microbiology of food and animal feeding stuffs — General requirements and guidance for microbiological examinations

ISO 17727, Cork — Cork stoppers for still wine — Sampling plan for the quality control of cork stoppers

3 Low-in-germs stoppers

Cork stoppers submitted to test methods specified in this International Standard are designated as low-in-germs stoppers when the following results are obtained:

< 10 cfu bacteria per stopper (see 13.1)

< 10 cfu yeast and moulds per stopper (see <u>13.2</u>)

4 Principle

Direct counting of colonies of living microorganisms (yeasts, moulds and bacteria) by incubation in a specific cultural medium after extraction with an alcoholic solution with added tartaric acid and followed by a membrane filtration procedure.

5 Reagents and cultural media

5.1 Physiological solution $(0,85 \ \% \ NaCl)^{1)}$ or **Ringer's solution** $(1/4 \ X)^{1)}$ with the following composition:

¹⁾ This product is commercially available.