BS ISO 15141:2018

BSI Standards Publication

Cereals and cereal products — Determination of ochratoxin A — High performance liquid chromatographic method with immunoaffinity column cleanup and fluorescence detection

Documents
Document Sharing Hub

Full document details: BS ISO 15141:2018

National foreword

This British Standard is the UK implementation of ISO 15141:2018. It supersedes BS EN ISO 15141-2:1998 and BS EN ISO 15141-1:1998, which are withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AW/4, Cereals and pulses.

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

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2023
Published by BSI Standards Limited 2023

ISBN 978 0 580 94862 6

ICS 67.060

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 March 2023.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS ISO 15141:2018

INTERNATIONAL STANDARD

ISO 15141

First edition
2018-07

Cereals and cereal products — Determination of ochratoxin A — High performance liquid chromatographic method with immunoaffinity column cleanup and fluorescence detection

Céréales et produits céréaliers — Dosage de l'ochratoxine A — Méthode par chromatographie en phase liquide à haute performance avec purification sur colonne d'immunoaffinité et détection par fluorescence

Reference number
ISO 15141:2018(E)

Documents
Document Sharing Hub

© ISO 2018

Full document details: BS ISO 15141:2018

COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

© ISO 2018 – All rights reserved

Documents
Document Sharing Hub

Full document details: BS ISO 15141:2018

Contents

Page

Foreword ... **iv**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Principle ... **1**
5 Reagents ... **2**
6 Apparatus and equipment ... **3**
7 Procedure ... **5**
7.1 General ... 5
7.2 Sampling ... 5
7.3 Preparation of the test samples ... 5
7.4 Extraction of ochratoxin A from the sample ... 5
7.4.1 Extraction ... 5
7.4.2 Dilution ... 5
7.5 Immunoaffnity column cleanup ... 5
7.6 HPLC operating conditions ... 6
7.7 Calibration graph ... 6
7.8 Identification ... 6
7.9 Determination ... 6
7.10 Confirmation ... 6
8 Calculation ... **7**
9 Precision ... **7**
9.1 General ... 7
9.2 Repeatability ... 8
9.3 Reproducibility ... 8
10 Test report ... **8**
Annex A (informative) **Results of interlaboratory tests** ... **9**
Bibliography ... **12**

© ISO 2018 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO 15141:2018

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 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.

This document was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 4, *Cereals and pulses*.

This first edition cancels and replaces ISO 15141-1:1998 and ISO 15141-2:1998, which have been technically revised.

The main change compared to the previous edition is that the principle of the extraction and purification has been changed.

© ISO 2018 – All rights reserved
Documents
Document Sharing Hub
Full document details: BS ISO 15141:2018