PD ISO/TS 21569-4:2016

BSI Standards Publication

Horizontal methods for molecular biomarker analysis — Methods of analysis for the detection of genetically modified organisms and derived products

Part 4: Real-time PCR based screening methods for the detection of the *P-nos* and *P-nos-nptII* DNA sequences

bsi.

AVA Documents
Document Sharing Hub

Full document details: PD ISO/TS 21569-4:2016

National foreword

This Published Document is the UK implementation of ISO/TS 21569-4:2016.

The UK participation in its preparation was entrusted to Technical Committee AW/275, Food analysis - Horizontal methods.

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 2016.
Published by BSI Standards Limited 2016

ISBN 978 0 580 93942 6
ICS 67.050

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

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 November 2016.

Amendments/corrigenda issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: PD ISO/TS 21569-4:2016

TECHNICAL SPECIFICATION

ISO/TS 21569-4

First edition
2016-11-01

Horizontal methods for molecular biomarker analysis — Methods of analysis for the detection of genetically modified organisms and derived products —

Part 4: Real-time PCR based screening methods for the detection of the *P-nos* and *P-nos-nptII* DNA sequences

Méthodes horizontales d'analyse moléculaire de biomarqueurs — Méthodes d'analyse pour la détection des organismes génétiquement modifiés et des produits dérivés —

Partie 4: Méthodes de dépistage PCR en temps réel pour la détection des séquences ADN P-nos *et* P-nos-nptII

Reference number
ISO/TS 21569-4:2016(E)

Documents
Document Sharing Hub

© ISO 2016

Full document details: PD ISO/TS 21569-4:2016

COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, 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

© ISO 2016 – All rights reserved

Documents
Document Sharing Hub

Full document details: PD ISO/TS 21569-4:2016

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principle **2**

5 Reagents and materials **2**
5.1 General 2
5.2 PCR reagents 2

6 Apparatus **3**

7 Procedure **3**
7.1 Preparation of test sample 3
7.2 Preparation of DNA extracts 3
7.3 PCR setup 3
7.4 Temperature-time programme 4

8 Accept/reject criteria **4**
8.1 General 4
8.2 Identification 4

9 Validation status and performance criteria **5**
9.1 General 5
9.2 Robustness of the method 5
9.3 Collaborative trial 5
9.4 Sensitivity 7
9.5 Specificity 7

10 Test report **9**

Bibliography **10**

© ISO 2016 – All rights reserved

Documents
Document Sharing Hub
Full document details: PD ISO/TS 21569-4:2016

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 World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 34, *Food products*, Subcommittee SC 16, *Horizontal methods for molecular biomarker analysis*.

A list of all the parts in the ISO/TS 21569 series can be found on the ISO website.

© ISO 2016 – All rights reserved
Documents
Document Sharing Hub
Full document details: PD ISO/TS 21569-4:2016