



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 16817-2:2015

Ambient air - Monitoring the effects of genetically modified organisms (GMO) - Pollen monitoring - Part 2: Biological pollen sampling using bee colonies

S.R. CEN/TS 16817-2:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

CEN/TS 16817-2:2015

Published:

2015-10-21

This document was published under the authority of the NSAI and comes into effect on:

2015-11-08

ICS number:

07.080

13.020.99

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

S.R. CEN/TS 16817-2:2015 is the adopted Irish version of the European Document CEN/TS 16817-2:2015, Ambient air - Monitoring the effects of genetically modified organisms (GMO) - Pollen monitoring - Part 2: Biological pollen sampling using bee colonies

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

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 16817-2

October 2015

ICS 07.080; 13.020.99

English Version

**Ambient air - Monitoring the effects of genetically
modified organisms (GMO) - Pollen monitoring - Part 2:
Biological pollen sampling using bee colonies**

Air ambiant - Surveillance des effets d'organismes
génétiquement modifiés (OGM) - Surveillance du
pollen - Partie 2 : Échantillonnage biologique du pollen
à l'aide de colonies d'abeilles

Außenluft - Monitoring der Wirkungen von
gentechnisch veränderten Organismen (GVO) -
Pollenmonitoring - Teil 2: Biologische Pollensammlung
mit Bienenvölkern

This Technical Specification (CEN/TS) was approved by CEN on 16 May 2015 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Basic principle of the procedure	8
5 Sample matrices	8
5.1 Honey.....	8
5.2 Pollen load	9
5.3 Bee-bread.....	9
6 Sampling procedure.....	9
6.1 General.....	9
6.2 Bee colony and hive.....	9
6.3 Sample site.....	9
6.4 Preparation and assembly.....	10
6.5 Exposure time.....	10
6.6 Sampling dates	10
6.7 Extraction, transport and storage.....	10
7 Palynology	11
7.1 General.....	11
7.2 From sample preparation to embedded slide preparation.....	11
7.2.1 General.....	11
7.2.2 Honey.....	11
7.2.3 Pollen load	11
7.2.4 Bee bread	11
7.3 Microscopic analysis	12
7.4 Pollen diversity	12
8 Molecular-biological analysis	13
8.1 General.....	13
8.2 Sample preparation.....	13
8.2.1 Honey.....	13
8.2.2 Pollen loads	13
8.2.3 Bee bread	14
9 Determination of the target parameters for GMO monitoring and representation of the results	14
9.1 Microscopic pollen analysis	14
9.1.1 General.....	14
9.1.2 Concentration in counts per gram of sample mass.....	14
9.1.3 Total number of pollen collected per exposure time and season.....	15
9.1.4 Relative frequency	15
9.2 Molecular-biological analysis	16
10 Performance characteristics of the methods.....	16
10.1 General.....	16

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-