



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 16817-1:2015

Ambient air - Monitoring the effects of genetically modified organisms (GMO) - Pollen monitoring - Part 1: Technical pollen sampling using pollen mass filter (PMF) and Sigma-2-sampler

S.R. CEN/TS 16817-1:2015

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 16817-1:2015

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 16817-1:2015 is the adopted Irish version of the European Document CEN/TS 16817-1:2015, Ambient air - Monitoring the effects of genetically modified organisms (GMO) - Pollen monitoring - Part 1: Technical pollen sampling using pollen mass filter (PMF) and Sigma-2-sampler

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

CEN/TS 16817-1

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

October 2015

ICS 07.080; 13.020.99

English Version

**Ambient air - Monitoring the effects of genetically
modified organisms (GMO) - Pollen monitoring - Part 1:
Technical pollen sampling using pollen mass filter (PMF)
and Sigma-2-sampler**

Air ambiant - Surveillance des effets d'organismes
génétiquement modifiés (OGM) - Surveillance du
pollen - Partie 1 : Échantillonnage technique du pollen
à l'aide d'un filtre de masse à pollen (PMF) et d'un
échantillonneur Sigma-2

Außenluft - Monitoring der Wirkungen von
gentechnisch veränderten Organismen (GVO) -
Pollenmonitoring - Teil 1: Technische Pollensammlung
mit Pollenmassenfilter (PMF) und Sigma-2-Sammler

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.....	5
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Basic principle of the procedure	9
5 Sampling.....	9
5.1 Instruments and materials	9
5.1.1 General.....	9
5.1.2 Sigma-2 passive sampler	10
5.1.3 Pollen mass filter PMF.....	10
5.2 Technical implementation.....	12
6 Sampling procedure.....	13
6.1 General.....	13
6.2 Sampling design.....	13
6.2.1 General.....	13
6.2.2 Exposure assessment of pollen input in the vicinity of fields with genetically modified crop (gm-fields) related to a specific GMO and region	14
6.2.3 Exposure assessment of pollen input for validating and/or calibrating dispersal models.....	15
6.2.4 General monitoring of pollen exposure at larger scales.....	15
6.2.5 Assessment of standardized and acceptor specific pollen deposition	15
6.3 Site conditions.....	15
6.4 Installing the equipment	16
6.5 Exposure time.....	17
6.6 Sampling at site.....	17
6.6.1 Sigma-2 passive sampler	17
6.6.2 PMF.....	17
6.7 Sample preparation.....	18
6.7.1 Preparation of slides for microscopy.....	18
6.7.2 Preparation of PMF samples	19
7 Microscopic pollen analysis	20
7.1 General.....	20
7.2 Sigma-2 passive sampler	20
7.2.1 Microscopic imaging methods.....	20
7.2.2 Qualitative analysis of the pollen diversity	21
7.2.3 Quantitative analysis of the pollen	21
7.3 PMF.....	21
7.3.1 Microscopic analysis	21
7.3.2 Qualitative analysis of the pollen (diversity).....	21
7.3.3 Quantitative microscopic analysis of pollen	21
8 Molecular-biological analyses of GMO.....	23

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
-