



NSAI
Standards

Irish Standard
I.S. EN 17362:2020

Animal feeding stuffs: Methods of sampling and analysis - Determination of pentachlorophenol (PCP) in feed materials and compound feed by LC-MS/MS

I.S. EN 17362:2020

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:

EN 17362:2020

Published:

2020-04-29

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

2020-05-18

ICS number:

65.120

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

I.S. EN 17362:2020 is the adopted Irish version of the European Document EN 17362:2020, Animal feeding stuffs: Methods of sampling and analysis - Determination of pentachlorophenol (PCP) in feed materials and compound feed by LC-MS/MS

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

For relationships with other publications refer to the NSAI web store.

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

EUROPEAN STANDARD

EN 17362

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 65.120

English Version

**Animal feeding stuffs: Methods of sampling and analysis -
Determination of pentachlorophenol (PCP) in feed
materials and compound feed by LC-MS/MS**

Aliments pour animaux : Méthodes d'échantillonnage
et d'analyse - Détermination de la teneur en
pentachlorophénol (PCP) dans les matières premières
pour aliments des animaux et les aliments composés
pour animaux par CL-SM/SM

Futtermittel: Probenahme- und
Untersuchungsverfahren - Bestimmung von
Pentachlorphenol (PCP) in Futtermittel und
Mischfuttermittel mittels LC-MS/MS

This European Standard was approved by CEN on 7 March 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, 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: Rue de la Science 23, B-1040 Brussels

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	7
5	Reagents and materials	7
5.1	General	7
5.2	Chemicals	7
6	Apparatus	10
6.1	Analytical balance, accuracy to 0,1 mg	10
6.2	Centrifuge	10
6.3	Water bath	10
6.4	Liquid chromatograph connected to a triple-quadrupole mass spectrometer	10
7	Sampling	11
8	Preparation of the test sample	12
9	Procedure	12
9.1	General	12
9.2	Test portions and extraction	12
9.3	LC-MS/MS	13
10	Calculation and expression of results	13
10.1	General	13
10.2	Calibration criteria	14
10.3	Identification and confirmation	14
10.4	Calculation	14
10.5	Recovery	15
11	Precision	15
11.1	Collaborative test	15
11.2	Repeatability limit	15
11.3	Reproducibility limit	15
12	Test report	16
Annex A (informative) Collaborative trial		17
Bibliography		19

European foreword

This document (EN 17362:2020) has been prepared by Technical Committee CEN/TC 327 “Animal feeding stuffs: Methods of sampling and analysis”, the secretariat of which is held by NEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 17362:2020 (E)

1 Scope

This document specifies a liquid chromatographic method with triple-quadrupole mass spectrometry (MS/MS) detection for the determination of pentachlorophenol (PCP) in feed materials and compound feed.

The limit of quantitation (LOQ) for the PCP determination in guar gum, fatty acid distillates (FAD) and compound feed is 10 µg/kg. Individual laboratories are responsible for ensuring that the equipment that they use will achieve this limit of quantification.

The method is validated in an international collaborative trial for pentachlorophenol in compound feed, guar gum and fatty acid distillate in the range between 9 µg/kg and 22 µg/kg.

The results of the collaborative trial, in which 16 laboratories participated, have shown that the method is applicable for the determination of PCP in compound feed, guar gum and FAD at the desired limit of 10 µg/kg. Satisfactory results were obtained for one compound feed sample, guar gum and the two FAD samples (HorRat < 2), while for the second compound feed sample a HorRat value of 2,2 was obtained.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 6498, *Animal feeding stuffs — Guidelines for sample preparation (ISO 6498)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1 calibration

complete set of operations which estimates under specified conditions the calibration function from observations of the response variable obtained on reference states

[SOURCE: ISO 3534-2:2006, 3.5.13 [1]]

3.2 collaborative trial interlaboratory comparisons

organization, performance and evaluation of measurements or tests on the same or similar items by two or more laboratories in accordance with predetermined conditions

[SOURCE: EN ISO/IEC 17043:2010, 3.4 [2]]

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](#)
-