

STN P	Potraviny rastlinného pôvodu Multimetóda stanovenia rezíduí pesticídov v rastlinných olejoch metódou LC-MS/MS (QuOil)	STN P CEN/TS 17062 56 0020
------------------	--	--

Foods of plant origin - Multimethod for the determination of pesticide residues in vegetable oils by LC-MS/MS (QuOil)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/20

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do septembra 2021.

Obsahuje: CEN/TS 17062:2019

Oznámením tejto normy sa ruší
STN P CEN/TS 17062 (56 0020) z marca 2018

130005

TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
TECHNISCHE SPEZIFIKATION

CEN/TS 17062

September 2019

ICS 67.050

English Version

Foods of plant origin - Multimethod for the determination of pesticide residues in vegetable oils by LC-MS/MS (QuOil)

Aliments d'origine végétale - Multiméthode de détermination des résidus de pesticides dans les huiles végétales par CL-SM/SM (QuOil)

Pflanzliche Lebensmittel - Multiverfahren zur Bestimmung von Pestizidrückständen in pflanzlichen Ölen mit LC-MS/MS (QuOil)

This Technical Specification (CEN/TS) was approved by CEN on 14 July 2019 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, 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	4
5 Reagents	4
6 Apparatus	7
7 Procedure	8
7.1 Extraction	8
7.2 Clean-up	8
7.3 Determination by liquid chromatography with tandem mass spectrometry (LC-MS/MS)	9
8 Evaluation of results	9
8.1 Identification and quantification	9
8.2 Calculation of residue concentrations using the internal standard	10
8.3 Calculation of residue concentrations without internal standards	10
8.4 Calculation of residue concentration using the standard additions approach	10
9 Precision	10
10 Test report	11
Annex A (informative) Examples of experimental conditions	12
Annex B (informative) Precision data and recovery	15
Annex C (informative) Scheme of procedure (for 2 g of sample)	24
Annex D (informative) Recovery studies	25
Annex E (informative) Abbreviations	26
Bibliography	28

European foreword

This document (CEN/TS 17062:2019) has been prepared by Technical Committee CEN/TC 275 “Food analysis - Horizontal methods”, the secretariat of which is held by DIN.

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 will supersede CEN/TS 17062:2017.

Compared to CEN/TS 17062:2017, the following changes have been made:

- Annex E (informative) containing a list of abbreviations was added;
- The document has been editorially revised.
- Annex E (informative) contains a list of abbreviations.

WARNING — The application of this Technical Specification may involve hazardous materials, operations and equipment. This Technical Specification does not claim to address all the safety problems associated with its use. It is the responsibility of the user of this Technical Specification to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: 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.

CEN/TS 17062:2019 (E)**1 Scope**

This Technical Specification describes a method for the analysis of pesticide residues in fatty oils of plant origin (essential oils are excluded). It has been validated in an interlaboratory test with olive oil. However, laboratory experiences have shown that this method is also applicable to other kinds of oils such as sunflower seed oil, sesame oil, flax seed oil, rape seed oil, grape seed oil, thistle oil and pumpkin seed oil.

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.

CEN/TS 17061:2019, *Foodstuffs — Guideline for the calibration and quantitative determination of chromatographic methods for the determination of pesticide residues and organic contaminants*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN