



**SLOVENSKI STANDARD**  
**SIST EN ISO 10519:2001**  
**01-februar-2001**

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Rapeseed - Determination of chlorophyll content - Spectrometric method (ISO 10519:1997)

Rapssamen - Bestimmung des Chlorophyllgehaltes -Spektrometrisches Verfahren (ISO 10519:1997)

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Graines de colza - Détermination de la teneur en chlorophylle -Méthode spectrométrique (ISO 10519:1997)

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**Ta slovenski standard je istoveten z: EN ISO 10519:2000**

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**ICS:**

67.200.20      Oljnice      Oilseeds

**SIST EN ISO 10519:2001**      **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 10519**

August 2000

ICS 67.200.20

English version

## Rapeseed - Determination of chlorophyll content - Spectrometric method (ISO 10519:1997)

Graines de colza - Détermination de la teneur en chlorophylle - Méthode spectrométrique (ISO 10519:1997)

Rapssamen - Bestimmung des Chlorophyllgehaltes - Spektrometrisches Verfahren (ISO 10519:1997)

This European Standard was approved by CEN on 5 August 2000.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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EN ISO 10519:2000

## Foreword

The text of the International Standard from Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 307 "Oilseeds, vegetable and animal fats and oils and their by-products - Methods of sampling and analysis", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2001, and conflicting national standards shall be withdrawn at the latest by February 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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**Endorsement notice**

The text of the International Standard ISO 10519:1997 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

**Annex ZA (normative)**  
**Normative references to international publications**  
**with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 664	1990	Oilseeds - Reduction of laboratory sample to test sample	EN ISO 664	1995
ISO 665	1977	Oilseeds - Determination of moisture and volatile matter content	EN ISO 665	1995

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INTERNATIONAL  
STANDARD

ISO  
10519

Second edition  
1997-11-01

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**Rapeseed — Determination of chlorophyll  
content — Spectrometric method**

*Graines de colza — Détermination de la teneur en chlorophylle — Méthode  
spectrométrique*

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Reference number  
ISO 10519:1997(E)

**ISO 10519:1997(E)****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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10519 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 2, *Oleaginous seeds and fruits*.

This second edition cancels and replaces the first edition (ISO 10519:1992), which has been technically revised.

Annexes A and B of this International Standard are for information only.

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# Rapeseed — Determination of chlorophyll content — Spectrometric method

## 1 Scope

This International Standard specifies a spectrometric method for the determination of the chlorophyll content of rapeseed. It is not applicable to the determination of chlorophyll in oils.

## 2 Normative references

The following standards contain provisions which, through reference in this test, constitute provisions of this International Standard. At the time of the publication, the editions indicated were valid. All standards are subject to revision, and the parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 648:1977, *Laboratory glassware - One-mark pipettes.*

ISO 664:1990, *Oilseeds - Reduction of laboratory sample to test sample.*

ISO 665:1977, *Oilseeds - Determination of moisture and volatile matter content.*

## 3 Definition

For the purposes of this International Standard, the following definition applies.

### 3.1

#### chlorophyll content

mass fraction of substances in the sample contributing to the absorption band at a wavelength near 665 nm, as determined under the operating conditions specified in this International Standard and measured as chlorophyll A

NOTE — The chlorophyll content is expressed in milligrams per kilogram.

## 4 Principle

Extraction of a test portion in a suitable apparatus with a specified extraction solvent. Spectrometric determination of the chlorophyll content of the extracted solution

## 5 Reagent

Use only reagents of recognized analytical grade unless otherwise stated.