



**International
Standard**

ISO 10519

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

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

**Fourth edition
2026-10**

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 2, *Oleaginous seeds and fruits and oilseed meals*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 307, *Oilseeds, vegetable and animal fats and oils and their by-products - Methods of sampling and analysis*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 10519:2015), of which it constitutes a minor revision. It incorporates the Amendment ISO 10519:2015/Amd 1:2025.

The changes are as follows:

- [Annex B](#) “Preparation of the calibration curve to determine the k factor” has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Rapeseed — Determination of chlorophyll content — Spectrometric method

1 Scope

This document 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 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.

ISO 648, *Laboratory glassware — Single-volume pipettes*

ISO 664, *Oilseeds — Reduction of laboratory sample to test sample*

ISO 665, *Oilseeds — Determination of moisture and volatile matter content*

3 Terms and definitions

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

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

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

3.1 chlorophyll content

mass fraction of substances in the sample contributing to the absorption band at a wavelength near 665 nm, measured as chlorophyll A

Note 1 to entry: The chlorophyll content is determined under the operating conditions specified in this document.

Note 2 to entry: 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.