International Standard

ISO 10519

Rapeseed — Determination of chlorophyll content — Spectrometric method

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

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Foreword

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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.

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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.

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