



## SLOVENSKI STANDARD SIST EN ISO 15788-2:2005

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Animal and vegetable fats and oils - Determination of stigmastadienes in vegetable oils -  
Part 2: Method using high-performance liquid chromatography (HPLC) (ISO 15788-  
2:2003)

**iTeh STANDARD PREVIEW**

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Tierische und pflanzliche Fette und Öle - Bestimmung der Stigmastadiene in  
Pflanzenölen - Teil 2: Verfahren mit Hochleistungsflüssigchromatographie (HPLC) (ISO  
15788-2:2003) <https://standards.iteh.ai/catalog/standards/sist/cd9f21ee-fd3e-414b-ba62-b743feeb775/sist-en-iso-15788-2-2005>

Corps gras d'origines animale et végétale - Dosage des stigmastadienes dans les huiles  
végétales - Partie 2: Méthode par chromatographie liquide a haute performance (CLHP)  
(ISO 15788-2:2003)

Ta slovenski standard je istoveten z: EN ISO 15788-2:2004

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Animal and vegetable fats  
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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN ISO 15788-2**

November 2004

ICS 67.200.10

English version

**Animal and vegetable fats and oils - Determination of  
 stigmastadienes in vegetable oils - Part 2: Method using high-  
 performance liquid chromatography (HPLC) (ISO 15788-2:2003)**

Corps gras d'origines animale et végétale - Dosage des  
 stigmastadiènes dans les huiles végétales - Partie 2:  
 Méthode par chromatographie liquide à haute performance  
 (CLHP) (ISO 15788-2:2003)

Tierische und pflanzliche Fette und Öle - Bestimmung der  
 Stigmastadiene in Pflanzenölen - Teil 2: Verfahren mit  
 Hochleistungsflüssigchromatographie (HPLC) (ISO 15788-  
 2:2003)

This European Standard was approved by CEN on 13 February 2003.

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.

**THE STANDARD PREVIEW**

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

<https://standards.jrc.ec.europa.eu/standards/sist/cd9121e9-1d3c-4140-ba02-b743feeb775/sist-en-iso-15788-2-2005>



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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 EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN ISO 15788-2:2004 (E)****Foreword**

The text of ISO 15788-2:2003 has been prepared by Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15788-2:2004 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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

**Endorsement notice**

The text of ISO 15788-2:2003 has been approved by CEN as EN ISO 15788-2:2004 without any modifications.

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INTERNATIONAL  
STANDARD

ISO  
15788-2

First edition  
2003-02-15

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**Animal and vegetable fats and oils —  
Determination of stigmastadienes  
in vegetable oils —**

Part 2:  
**Method using high-performance liquid  
chromatography (HPLC)**

**iTeh STANDARD REVIEW  
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*Corps gras d'origines animale et végétale — Dosage des  
stigmastadiènes dans les huiles végétales —*

*SIST EN ISO 15788-2:2005  
Partie 2: Méthode par chromatographie liquide à haute performance  
(CLHP)*  
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Reference number  
ISO 15788-2:2003(E)

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Published in Switzerland

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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

ISO 15788-2 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

## iTeh STANDARD PREVIEW

ISO 15788 consists of the following parts, under the general title *Animal and vegetable fats and oils — Determination of stigmastadienes in vegetable oils*: [standards.iteh.ai](https://standards.iteh.ai/catalog/standards/sist-en-iso-15788-2-2005)

- *Part 1: Method using capillary-column gas chromatography (Reference method)* [SIST EN ISO 15788-2:2005](https://standards.iteh.ai/catalog/standards/sist-en-iso-15788-2-2005)
- *Part 2: Method using high-performance liquid chromatography (HPLC)* [b7431eeb775/sist-en-iso-15788-2-2005](https://standards.iteh.ai/catalog/standards/sist-en-iso-15788-2-2005)

# Animal and vegetable fats and oils — Determination of stigmastadienes in vegetable oils —

## Part 2: Method using high-performance liquid chromatography (HPLC)

### 1 Scope

This part of ISO 15788 specifies a method for the determination of steradienes, especially stigmastadienes. Steradienes are formed by dehydration of sterols during bleaching and also partially during steam washing and deodorization. The method is also suitable as a screening method to detect the presence of refined vegetable oils in virgin oils such as virgin olive oil.

NOTE ISO 15788-1 is the reference method for the determination of stigmastadienes in vegetable oils whilst this part of ISO 15788 can be used as a rapid screening method. In view of the precision of this method (see Annex A), samples of virgin olive oils close to the limit adopted by international regulations (IOOC, EC) can be verified by the GLC method given in ISO 15788-1.

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### 2 Normative references

[SIST EN ISO 15788-2:2005](https://standards.iteh.ai/catalog/standards/sist/cd9f21ee-fd3e-414b-ba62-b743feeb775/sist-en-iso-15788-2-2005)

The following referenced documents are indispensable for the application 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 3696:1987, *Water for analytical use — Specification and test method*

ISO 12228, *Animal and vegetable fats and oils — Determination of individual and total sterols content — Gas chromatographic method*

### 3 Terms and definitions

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

#### 3.1

##### **stigmastadienes content**

that part of the stigmastadienes separated by liquid chromatography under the conditions specified in this International Standard

NOTE It is expressed in milligrams per kilogram.

#### 3.2

##### **steradienes content**

that part of all the steradienes separated by liquid chromatography under the conditions specified in this International Standard

NOTE It is expressed in milligrams per kilogram.