

SLOVENSKI STANDARD SIST EN ISO 5809:1998

01-november-1998

Škrob in škrobni derivati - Določevanje sulfatnega pepela

Starches and derived products - Determination of sulphated ash

Stärke und Stärkederivate - Bestimmung der Sulfatasche

Amidons, fécules et produits dérivés - Détermination des cendres sulfatées

Ta slovenski standard je istoveten z: EN ISO 5809:1994

SIST EN ISO 5809:1998

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ICS:

67.180.20 Škrob in izdelki iz njega Starch and derived products

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EUROPEAN STANDARD

EN ISO 5809

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1994

UDC 664.2:543.822

Descriptors:

Starches, chemical analysis, determination of sulphated ash

English version

Starches and derived products - Determination of sulphated ash

Amidons, fécules et produits dérivés DARD PRE Stärke und Stärkederivate - Bestimmung der Détermination des cendres sutfatées DARD PRE sulfatasche

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This European Standard was approved by CEN on 1994-09-06. 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 European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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 5809:1994

Foreword

The text of the International Standard ISO 5809:1982, was prepared by ISO/TC 93 "Starch (including derivatives and by-products)", was submitted to Formal Vote and was approved by CEN as EN ISO 5809 on 1994-09-06 without any modification.

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 March 1995, and conflicting national standards shall be withdrawn at the latest by March 1995.

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

Endorsement notice

The text of the International Standard ISO 5809:1982 was approved by CEN as a European Standard without any modification.

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NOTE: Normative references to international publications are listed in annex ZA (normative)

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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 (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1666	1973	Starch - Determination of moisture content - Oven-drying method	EN ISO 1666	1994
ISO 1741	1980	Dextrose - Determination of loss in mass on drying - Vacuum oven method	EN ISO 1741	1994

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International Standard



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

Starches and derived products — Determination of sulphated ash

Amidons, fécules et produits dérivés — Détermination des cendres sulfatées

First edition – 1982-12-01Teh STANDARD PREVIEW (standards.iteh.ai)

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UDC 664.2:543.822

Descriptors: starches, chemical analysis, determination of sulphated ash.

Ref. No. ISO 5809-1982 (E)

SO 5809-1982 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. iTeh STANDARD PREVIEW

International Standard ISO 5809 was developed by Technical Committee ISO/TC 93, Starch (including derivatives and by-products), and was circulated to the member bodies in February 1982.

SIST EN ISO 5809:1998

It has been approved by the member bodies of the following countries sist/54bfbf38-b520-4447-8208eeacdc6cd8d3/sist-en-iso-5809-1998

Austria Egypt, Arab Rep. of Netherlands Poland

South Africa, Rep. of

USA

France

Portugal

USSR

Germany, F.R.

Romania

No member body expressed disapproval of the document.

ISO 5809-1982 (E)

Starches and derived products — Determination of sulphated ash

Scope and field of application

This International Standard specifies a method for the determination of sulphated ash in starches and derived products.

References

ISO 1666, Starch - Determination of moisture content -Oven-drying methods. 1)

ISO 1741, Dextrose - Determination of loss in mass on drying

 Vacuum oven method. iTeh STANDARI

Refractive index method. https://standards.iteh.ai/catalog/standards/sis

eeacdc6cd8d3/sist-en-iso

3 **Definition**

sulphated ash: The residue obtained after incineration of the product, according to the method specified in this International Standard.

It is expressed as a percentage by mass either of the product asreceived or on the dry basis.

Principle

Incineration of a test portion, in the presence of sulphuric acid, at a temperature of 525 \pm 25 °C.

The sulphuric acid facilitates the destruction of the organic matter and avoids losses by converting the volatile chlorides into non-volatile sulphates.

Reagents

During the analysis, use only reagents of recognized analytical quality and only distilled water or water of at least equivalent purity.

5.1 Sulphuric acid solution.

Add, carefully, 100 ml of concentrated sulphuric acid, ϱ_{20} 1,83 g/ml, to 300 ml of water and mix.

5.2 Hydrochloric acid solution.

Add, carefully, 100 ml of concentrated hydrochloric acid, ϱ_{20} 1,19 g/ml, to 500 ml of water and mix.

Apparatus

Ordinary laboratory apparatus, and in particular

- ISO 1742, Glucose syrups Determination of dry matter Standards.if. The ineration dish, of platinum or any other material which does not deteriorate under the test conditions (for exam-ISO 1743, Glucose syrup - Determination of dry matter 150 580 ple a silica incineration dish), of capacity 100 to 200 ml and with a minimum useful surface of 15 cm2.
 - 6.2 Electric furnace with air circulation, capable of being controlled at 525 ± 25 °C.
 - Electric hot-plate or gas burner or heating lamp.
 - Desiccator, provided with an efficient desiccant.
 - Water bath, capable of being controlled at 60 to 70 °C.
 - Analytical balance.

Procedure

Preparation of the incineration dish

Clean the incineration dish (6.1), whether it is new or used, with boiling hydrochloric acid solution (5.2), then rinse generously with water.

Calcinate the incineration dish for 30 min in the furnace (6.2), controlled at 525 \pm 25 °C. Allow to cool to ambient temperature in the desiccator (6.4) and weigh to the nearest 0,000 2 g (the incineration dish should be calcinated to constant mass).

¹⁾ Under revision.