

Milk-based infant foods - Determination of fat content - Gravimetric method (Reference method)

Milk-based infant foods - Determination of fat content - Gravimetric method (Reference method)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 8381:2000 sisaldab Euroopa standardi EN ISO 8381:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.08.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 8381:2000 consists of the English text of the European standard EN ISO 8381:2000.</p> <p>This document is endorsed on 18.08.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p>Käsitlusala:</p> <p>This standard specifies the reference method for the determination of the fat content of milk-based infant foods. The method is applicable to liquid, concentrated and dried milk-based infant foods, with no, or not more than 5 % (m/m) (in the dry matter) of starch or dextrin, or vegetable, fruit, meat, etc.</p>	<p>Scope:</p> <p>This standard specifies the reference method for the determination of the fat content of milk-based infant foods. The method is applicable to liquid, concentrated and dried milk-based infant foods, with no, or not more than 5 % (m/m) (in the dry matter) of starch or dextrin, or vegetable, fruit, meat, etc.</p>
---	---

ICS 67.100.01

Võtmesõnad: agricultural products, chemical analysis, dairy products, determination of content, fats, food products, gravimetric analysis, infant foods, reference methods

English version

Milk-based infant foods

Determination of fat content – Gravimetric method (Reference method)
(ISO 8381 : 2000)

Aliments à base de lait pour enfants
en bas âge – Détermination de la
teneur en matière grasse – Méthode
gravimétrique (Méthode de référence)
(ISO 8381 : 2000)

Säuglingsnahrung auf Milchbasis –
Bestimmung des Fettgehaltes –
Gravimetrisches Verfahren
(Referenzverfahren)
(ISO 8381 : 2000)

This European Standard was approved by CEN on 1999-12-24.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

Foreword

International Standard

ISO 8381 : 2000 Milk-based infant foods – Determination of fat content – Gravimetric method (Reference method),

which was prepared by ISO/TC 34 'Agricultural food products' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 302 'Milk and milk products – Methods of sampling and analysis', the Secretariat of which is held by NNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 8381 : 2000 was approved by CEN as a European Standard without any modification.

Contents

	Page
1 Scope	3
2 Normative reference	3
3 Term and definition	3
4 Principle	4
5 Reagents	4
6 Apparatus	4
7 Sampling	5
8 Preparation of test sample	6
8.1 Liquid products	6
8.2 Viscous or pasty products	6
8.3 Dried products	6
9 Procedure	6
9.1 Test portion	6
9.2 Blank tests	6
9.3 Preparation of fat-collecting vessel	7
9.4 Determination	7
10 Calculation and expression of results	9
10.1 Calculation	9
10.2 Expression of results	10
11 Precision	10
11.1 Interlaboratory test	10
11.2 Repeatability	10
11.3 Reproducibility	10
12 Test report	11
Annex A (informative) Notes on procedures	11
Annex B (informative) Alternative procedure using fat-extraction tubes with siphon or wash-bottle fittings	13
Bibliography	15

WARNING — The use of this International Standard may involve hazardous materials, operations and equipment. This standard does not purport to address all the safety problems associated with its use. It is the responsibility of the user of this standard to establish safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies the reference method for the determination of the fat content of milk-based infant foods.

The method is applicable to liquid, concentrated and dried milk-based infant foods with no, or not more than a mass fraction of 5 % (dry matter) of starch or dextrin, or vegetable, fruit, meat, etc.

NOTE 1 Malto-dextrins without higher molecular mass dextrins, which are often present in infant foods, do not disturb the Röse-Gottlieb extraction even when present in high concentrations.

The method is not applicable to products which do not dissolve completely in ammonia owing to the presence of more than a few percent of starch or dextrin, or to the presence of hard lumps. The method is also not applicable to products which contains free fatty acids in significant quantities. The results obtained for these products will be too low.

NOTE 2 For such products, recourse should be made to a method utilizing the Weibull-Berntrop principle (see ISO 8262-1).

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3889, *Milk and milk products — Determination of fat content — Mojonnier-type fat extraction flasks.*

3 Term and definition

For the purposes of this International Standard, the following term and definition apply.

3.1

fat content of milk

mass fraction of substances determined by the procedure specified in this International Standard

NOTE The fat content is expressed as a mass fraction, in percent [formerly given as % (m/m)].