Milk - Determination of nitrogen content - Part 4: Determination of non-protein nitrogen content

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 8968-4:2002 sisaldab Euroopa standardi EN ISO 8968-4:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 16.05.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 8968-4:2002 consists of the English text of the European standard EN ISO 8968-4:2001. This document is endorsed on 16.05.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This part of EN ISO 8968/IDF 20 specifies a method for the determination of the non-protein nitrogen content of liquid milk, whole or skimmed.	**Scope:** This part of EN ISO 8968/IDF 20 specifies a method for the determination of the non-protein nitrogen content of liquid milk, whole or skimmed.

ICS 67.100.10

Võtmesõnad: chemical analysis and testin, content, crude proteins, dairy analysis, definition, definitions, determination of content, food inspection, food products, foodstuff, laboratory tests, milk, milk products, nitrogen, sampling, sampling methods, testing, titration

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8968-4

December 2001

ICS 67.100.10

English version

Milk – Determination of nitrogen content

Part 4: Determination of non-protein-nitrogen content
(ISO 8968-4 : 2001)

Lait – Détermination de la teneur en azote – Partie 4: Détermination de la teneur en azote non protéique (ISO 8968-4 : 2001)

Milch – Bestimmung des Stickstoffgehaltes – Teil 4: Bestimmung des Nichtproteinstickstoff-Gehaltes (ISO 8968-4 : 2001)

This European Standard was approved by CEN on 2001-12-15.

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 Management Centre 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 Management Centre 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

Management Centre: rue de Stassart 36, B-1050 Brussels

Ref. No. EN ISO 8968-4 : 2001 E

Foreword

International Standard

ISO 8968-4 : 2001 Milk – Determination of nitrogen content – Part 4: Determination of non-protein-nitrogen content,

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 June 2002 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 8968-4 : 2001 was approved by CEN as a European Standard without any modification.

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WARNING — The use of this part of ISO 8968|IDF 20 may involve the use of hazardous materials, operations, and equipment. This standard does not purport to address all the safety risks associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and healthy practices and determine the applicability of local regulatory limitations prior to use.

1 Scope

This part of ISO 8968|IDF 20 specifies a method for the determination of the non-protein nitrogen content of liquid milk, whole or skimmed.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 8968|IDF 20. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 8968|IDF 20 are encouraged to investigate the possibility of applying the most recent editions of the normative documents 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 8968-1|IDF 20-1:2001, *Milk — Determination of nitrogen content — Part 1: Kjeldahl method*

ISO 8968-2|IDF 20-2:2001, *Milk — Determination of nitrogen content — Part 2: Block-digestion method (Macro method)*

3 Term and definition

For the purposes of this part of ISO 8968|IDF 20, the following term and definition apply.

3.1
non-protein-nitrogen content
mass fraction of substances determined by the procedure specified in this part of ISO 8968|IDF 20

NOTE The non-protein-nitrogen content is expressed as a percentage by mass.

4 Principle

Protein is precipitated from a test portion by the addition of trichloroacetic acid solution such that the final concentration of trichloroacetic acid in the mixture is approximately 12 %. The precipitated milk protein is removed by filtration, and the remaining filtrate contains the non-protein-nitrogen components. The nitrogen content of the filtrate is determined by the procedure described either in part 1 or part 2 of ISO 8968|IDF 20.