INTERNATIONAL STANDARD

ISO 8968-5

> IDF 20-5

First edition 2001-12-15

Milk — Determination of nitrogen content —

Part 5:

Determination of protein-nitrogen content

Lait — Détermination de la teneur en azote —

Partie 5: Détermination de la teneur en azote protéique



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. Neither the ISO Central Secretariat nor the IDF accepts any liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies and IDF national committees. In the unlikely event that a problem relating to it is found, please inform the ISO Central Secretariat at the address given below.

This document is a preview denotated by this

© ISO and IDF 2001

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO or IDF at the respective address below.

ISO copyright office

Case postale 56 • CH-1211 Geneva 20

Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.ch Web www.iso.ch

Printed in Switzerland

International Dairy Federation

41 Square Vergote • B-1030 Brussels

Tel. + 32 2 733 98 88 Fax + 32 2 733 04 13 E-mail info@fil-idf.org Web www.fil-idf.org

Con	ntents	Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Term and definition	1
4	Principle	2
5	Reagents	2
6	Apparatus	2
7	Sampling	2
8	Preparation of test sample	3
9 9.1 9.2 9.3	Procedure Test portion Direct determination	3 3 3
10 10.1 10.2	Calculation and expression of results Calculation of protein-nitrogen content Calculation of true protein content Precision	4
11 11.1 11.2 11.3	Interlaboratory test	5 5
12	Test reportQ	5
Biblio	Reproducibility	6

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 3.

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 25 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 8968 IDF 20 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 8968-5 IDF 20-5 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF), in collaboration with AOAC International. It is being published jointly by SO and IDF and separately by AOAC International.

ISO 8968 IDF 20 consists of the following parts, under the general title Milk — Determination of nitrogen content:

- Part 1: Kjeldahl method
- Part 2: Block-digestion method (Macro method)
- Part 3: Block-digestion method (Semi-micro rapid routine method)
- Part 4: Determination of the non-protein-nitrogen content
- Part 5: Determination of the protein-nitrogen content

Selded parties

Foreword

IDF (the International Dairy Federation) is a worldwide federation of the dairy sector with a National Committee in every member country. Every National Committee has the right to be represented on the IDF Standing Committees carrying out the technical work. IDF collaborates with ISO and AOAC International in the development of standard methods of analysis and sampling for milk and milk products.

Draft International Standards adopted by the Action Teams and Standing Committees are circulated to the National Committees for voting. Publication as an International Standard requires approval by at least 50 % of National Committees casting a vote.

International Standard ISO 8908-5 IDF 20-5 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF), in collaboration with AOAC International. It is being published jointly by ISO and IDF and separately by AOAC International.

AOAC International. It is being published out by the Join (SO/IDF/AOAC Action Team, Nitrogen compounds, under the aegis of its project leader, Mr D.M. Barbano (US).

© ISO and IDF 2001 - All rights reserved

Inis document is a preview denetated by EUS

Milk — Determination of nitrogen content —

Part 5:

Determination of protein-nitrogen content

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 direct determination of the protein-nitrogen content of liquid milk, whole or skimmed.

An alternative indirect method using calculations also described.

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 Rart 1: Kjeldahl method

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

ISO 8968-4 | IDF 20-4:2001, Milk — Determination of nitrogen content — Part 4. Determination of the non-protein-nitrogen content

3 Term and definition

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

3.1

protein-nitrogen content

mass fraction of substances determined by the procedure specified in this part of ISO 8968 | IDF 20, directly or indirectly

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