

INTERNATIONAL
STANDARD

ISO
8968-1

IDF
20-1

Second edition
2014-02-01

**Milk and milk products —
Determination of nitrogen content —
Part 1:
Kjeldahl principle and crude protein
calculation**

*Lait et produits laitiers — Détermination de la teneur en azote —
Partie 1: Méthode Kjeldahl et calcul de la teneur en protéines brutes*



Reference numbers
ISO 8968-1:2014(E)
IDF 20-1:2014(E)

© ISO and IDF 2014



COPYRIGHT PROTECTED DOCUMENT

© ISO/IDF 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO or IDF at the respective address below or ISO's member body in the country of the requester.

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.org
Web www.iso.org

International Dairy Federation
Silver Building • Bd Auguste Reyers 70/B • 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

Published in Switzerland

Contents

Page

Forewords	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Reagents	2
6 Apparatus	3
7 Sampling	5
8 Preparation of test sample	5
8.1 Whole, partially skimmed or skimmed liquid milk	5
8.2 Hard, semi-hard and processed cheese	5
8.3 Dried milk and dried milk products	5
9 Procedures	6
9.1 Traditional method	6
9.2 Block digestion method	7
9.3 Blank test	9
9.4 Recovery tests	10
10 Calculation and expression of results	11
10.1 Calculation	11
10.2 Expression of results	12
11 Precision	13
11.1 Interlaboratory tests	13
11.2 Liquid milk, whole milk and skimmed milk	13
11.3 Hard, semi-hard and processed cheese	14
11.4 Dried milk and dried milk products	14
12 Test report	14
Annex A (informative)	
Test portion	15
Annex B (informative)	
Collaborative trials	16
Bibliography	18