
**Milk and milk products — Enumeration of
presumptive *Escherichia coli* —**

Part 3:

Colony-count technique at 44 °C using
membranes

Lait et produits laitiers — Dénombrement d'Escherichia coli présumés —

*Partie 3: Technique par comptage des colonies obtenues sur membranes à
44 °C*



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.

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 75 % of the member bodies casting a vote.

This part of ISO 11866 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 5, *Milk and milk products*, in collaboration with the International Dairy Federation (IDF) and AOAC INTERNATIONAL. It will also be published by these organizations.

ISO 11866 consists of the following parts, under the general title *Milk and milk products — Enumeration of presumptive Escherichia coli*:

- *Part 1: Most probable number technique*
- *Part 2: Most probable number technique using 4-methylumbelliferyl- β -D-glucuronide (MUG)*
- *Part 3: Colony-count technique at 44 °C using membranes*

The method specified in ISO 11866-3 is preferred for samples in which comparatively large numbers of presumptive *Escherichia coli* are suspected.

Annex A of this part of ISO 11866 is for information only.

© ISO 1997

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 the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

Milk and milk products — Enumeration of presumptive *Escherichia coli* —

Part 3: Colony-count technique at 44 °C using membranes

1 Scope

This part of ISO 11866 specifies a method for the enumeration of presumptive *Escherichia coli* by means of a colony-count technique at 44 °C.

The method is applicable to

- milk, liquid milk products;
- dried milk, dried sweet whey, dried buttermilk, lactose;
- acid casein, lactic casein and rennet casein;
- caseinate and dried acid whey;
- cheese and processed cheese;
- butter;
- frozen milk products (including edible ices);
- custard, desserts and cream.

The method specified in this part of ISO 11866 is the preferred method for samples in which comparatively large numbers of presumptive *Escherichia coli* (more than 100 per gram or 10 per millilitre) are suspected.

CAUTION — Some *Escherichia coli* pathogenic species do not grow at 44 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 11866. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this part of ISO 11866 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6610:1992, *Milk and milk products — Enumeration of colony-forming units of micro-organisms — Colony-count technique at 30 °C.*

ISO 7218:1996, *Microbiology of food and animal feeding stuffs — General rules for microbiological examinations.*

ISO 8261:1989, *Milk and milk products — Preparation of test samples and dilutions for microbiological examination.*