

Methods for

Analysis of dried milk and dried milk products —

Part 16: Determination of nitrate and
nitrite contents —

Section 16.1 Method for dried milk by
cadmium reduction

[ISO title: Dried milk — Determination of nitrate and nitrite
contents — Method by cadmium reduction and photometry]

IMPORTANT NOTE. It is essential that this Part be read in conjunction with
Part 1 “General introduction, including preparation of laboratory samples”, published
separately.

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Amendments issued since publication

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Contents

	Page
National foreword	ii
1 Scope and field of application	1
2 Reference	1
3 Definition	1
4 Principle	1
5 Reagents	1
6 Apparatus	2
7 Sampling	2
8 Procedure	2
9 Expression of results	4
10 Test report	4
Figure — Apparatus for nitrate reduction	5
Publications referred to	Inside back cover

National foreword

This Section of BS 1743, which has been prepared under the direction of the Dairying Standards Committee, is identical with ISO 6736:1982 *“Dried milk — Determination of nitrate and nitrite contents — Method by cadmium reduction and photometry”*, prepared by ISO/TC 34, Agricultural food products, of the International Organization for Standardization (ISO).

The method described in ISO 6736 was developed jointly with the International Dairy Federation (IDF) and the Association of Official Analytical Chemists, USA (AOAC). It will be incorporated in the FAO/WHO Code of Principles concerning Milk and Milk Products and Associated Standards.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references. With reference to clause 7, the methods for sampling given in BS 809:1974, which is related to ISO/R 707, may be employed. It is expected that the revision of ISO/R 707 will be published, when available, as a dual-numbered revision of BS 809.

With reference to ISO 6739 and ISO 6740, which are mentioned for information only in clause 1, it is expected that these will be published as dual-numbered British Standards.

Additional information. With reference to 5.1, sufficient cadmium granules for four reduction columns can be obtained by using six zinc rods (each approximately 150 mm long and 10 mm in diameter), placing them in a tall form beaker (capacity 400 mL) and adding 300 mL of the cadmium solution. It is advantageous not to cover the rods completely as the exposed ends can then be held when scraping the cadmium sponge from the rods.

NOTE Attention is drawn to the use of the symbol “l” for litre in the international text. In British Standards it is current practice for the symbol “L” to be used for litre.

In clause 9, the calculations have been based on the assumption that the volume of filtrate collected (8.6.3) is 200 mL.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.