BRITISH STANDARD

BS 7142-4: 1989
ISO 8262-3: 1987

Methods for

# Analysis of milk-based products —

## Part 4: Determination of fat content of liquid, concentrated and dried milk products by the Weibull-Berntrop gravimetric method

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# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Dairying Standards Policy Committee (DAC/-) to Technical Committee DAC/3, upon which the following bodies were represented:

AFRC Institute of Food Research, Reading Laboratory
Association of British Preserved Milk Manufacturers
Association of Public Analysts
Association of Public Analysts of Scotland
Creamery Proprietors' Association
Department of Trade and Industry (Laboratory of the Government Chemist)
Ice Cream Alliance Limited
Intervention Board for Agricultural Produce
Joint Committee of the Milk Marketing Board and the Dairy Trade Federation
Milk Marketing Board
Milk Marketing Board for Northern Ireland
Ministry of Agriculture, Fisheries and Food
Royal Association of British Dairy Farmers
Royal Society of Chemistry
Society of Chemical Industry
Society of Dairy Technology

This British Standard, having been prepared under the direction of the Dairying Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 October 1989

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# National foreword

This Part of BS 7142, which has been prepared under the direction of the Dairying Standards Policy Committee, is identical with ISO 8262 "*Milk products and milk-based foods — Determination of fat content by the Weibull-Berntrop gravimetric method (Reference method) — Part 3: Special cases*", prepared by ISO/TC 34, Agricultural food products, of the International Organization for Standardization (ISO). The method described in ISO 8262-3 was developed jointly with the International Dairy Federation (IDF) and the Association of Official Analytical Chemists (AOAC).

## Cross-references

| International Standard | Corresponding British Standard |
|---|---|
| ISO 707:1985 | BS 809:1985 *Methods for sampling of milk and milk products*<br>(Identical) |
| ISO 1211:1984 | BS 1741 *Methods for chemical analysis of liquid milk and cream*<br>Part 3:1987 *Determination of fat content of liquid milk*<br>(Identical) |
| ISO 1443:1973 | BS 4401 *Methods of test for meat and meat products*<br>Part 4:1970 (1986) *Determination of total fat content*<br>(Method A, technically equivalent) |
| ISO 1735:1987 | BS 770 *Methods for chemical analysis of cheese*<br>Part 3:1989 *Determination of fat content (reference method)*<br>(Identical) |
| ISO 1736:1985 | BS 1743 *Methods for analysis of dried milk and dried milk products*<br>Part 11:1986 *Determination of fat content (gravimetric reference method)*<br>(Identical) |
| ISO 2450:1985 | BS 1741 *Methods for chemical analysis of liquid milk and cream*<br>Part 4:1987 *Determination of fat content of cream*<br>(Identical) |
| ISO 5725:1986 | BS 5497 *Precision of test methods*<br>Part 1:1987 *Guide for the determination of repeatability and reproducibility for a standard test method by inter-laboratory tests*<br>(Identical) |

The Technical Committee has reviewed the provisions of ISO 1737, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. A related British Standard for ISO 1737 is BS 1742 "*Methods for analysis of condensed milks*". It is envisaged that an identical dual numbered standard will be published.

**Additional information.** Although not specified in the ISO text, it is strongly recommended that duplicate determinations are undertaken. Provided that the duplicate values, calculated as described in **9.1**, comply with the repeatability requirement of **9.2.1**, the results should be reported as the mean value, and in such cases, the test report (see clause **11**) should include a reference to the fact that such a result has been reported.


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When results reported are the mean of two values that comply with the repeatability requirement, the difference between the results reported for fat content, obtained on samples of the same test material by two different analysts in two different laboratories, should not exceed the values stated in **9.2.2**.

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 to iv, 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.

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