

Milk and milk products — Determination of residues of organochlorine compounds (pesticides)

Part 1: General considerations and extraction methods

ICS 67.100.01

National foreword

This British Standard is the UK implementation of ISO 3890-1:2009. It supersedes BS ISO 3890-1:2000 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AW/5, Chemical analysis of milk and milk products.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Part 1: General considerations and extraction methods

*Lait et produits laitiers — Détermination des résidus de composés
organochlorés (pesticides) —*

Partie 1: Considérations générales et méthodes d'extraction



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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 2.

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 75 % of the member bodies casting a vote.

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

ISO 3890-1|IDF 75-1 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*, and the International Dairy Federation (IDF). It is being published jointly by ISO and IDF.

ISO 3890|IDF 75 consists of the following parts, under the general title *Milk and milk products — Determination of residues of organochlorine compounds (pesticides)*:

- *Part 1: General considerations and extraction methods*
- *Part 2: Test methods for crude extract purification and confirmation*

This second edition of ISO 3890-1|IDF 75-1 cancels and replaces the first edition (ISO 3890-1:2000), of which it constitutes a minor revision.

Foreword

IDF (the International Dairy Federation) is a non-profit organization representing the dairy sector worldwide. IDF membership comprises National Committees in every member country as well as regional dairy associations having signed a formal agreement on cooperation with IDF. All members of IDF have the right to be represented on the IDF Standing Committees carrying out the technical work. IDF collaborates with ISO in the development of standard methods of analysis and sampling for milk and milk products.

The main task of Standing Committees is to prepare International Standards. 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 the IDF National Committees casting a vote.

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

ISO 3890-1|IDF 75-1 was prepared by the International Dairy Federation (IDF) and Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*. It is being published jointly by IDF and ISO.

All work was carried out by the former Joint ISO-IDF Group of Experts (E12 — *Pesticide residues*) which is now part of the Joint ISO-IDF Action Team on *Organic contaminants and veterinary residues* of the Standing Committee on *Analytical methods for additives and contaminants*.

ISO 3890|IDF 75 consists of the following parts, under the general title *Milk and milk products — Determination of residues of organochlorine compounds (pesticides)*:

- *Part 1: General considerations and extraction methods*
- *Part 2: Test methods for crude extract purification and confirmation*

This edition of ISO 3890-1|IDF 75-1, together with ISO 3890-2|IDF 75-2, cancels and replaces IDF 75C:1991, of which it constitutes a minor revision.

Milk and milk products — Determination of residues of organochlorine compounds (pesticides) —

Part 1: General considerations and extraction methods

WARNING — The use of this part of ISO 3890|IDF 75 may involve hazardous materials, operations and equipment. This part of ISO 3890|IDF 75 does not purport to address all the safety problems associated with its use. It is the responsibility of the user of this part of ISO 3890|IDF 75 to establish health and safety practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This part of ISO 3890|IDF 75 describes general considerations and specifies extraction methods for the determination of residues of organochlorine pesticides in milk and milk products.

A method for high-fat products is specified in Annex A.

Guidance is given on the conduct of analyses in the presence of polychlorinated biphenyls (PCBs) in Annex B.

The methods are applicable to: α -HCH; β -HCH; γ -HCH; aldrin/dieldrin; heptachlor and heptachlorepoxyde; isomers of DDT, DDE, TDE; chlordane and oxychlordane; and endrin. Certain methods are applicable to δ -ketoendrin and HCB.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3890-2|IDF 75-2, *Milk and milk products — Determination of residues of organochlorine compounds (pesticides) — Part 2: Test methods for crude extract purification and confirmation*

ISO 5725-1, *Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions*

ISO 5725-2, *Accuracy (trueness and precision) of measurement methods and results — Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method*