Technical

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IDF/RM 228

Heat-processed milk and dried milk products — Enumeration of thermoresistant spores of thermophilic bacteria

Lait sec et produits laitiers en poudre traités thermiquement — Dénombrement des spores thermorésistantes des bactéries thermophiles

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This document 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.

This second edition cancels and replaces the first edition (ISO/TS 27265 | IDF/RM 228:2009), which has been technically revised.

The main changes are as follows:

— Addition of an alternative water bath heating procedure at 100 °C for 30 min to provide a more feasible approach and to improve the uniformity of analysis among different laboratories.

— Annex C on modification of pressure cooker for performing the thermophilic spore test has been deleted.

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This document was prepared by the IDF *Standing Committee on Methods for Dairy Microbiology* and ISO Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 5, *Milk and milk products*. It is being published jointly by ISO and IDF.

The work was carried out by the IDF/ISO Action Team H28 of the *Standing Committee on Methods for Dairy Microbiology* under the aegis of its project leader Haiping Li (US).

Bacterial spores are ubiquitous in the environment and are highly resistant to many stress factors (e.g. heat). Thermoresistant spores can contaminate dairy products via raw milk, biofilms on equipment surfaces (milking, transportation, and processing), ingredients, or water, etc. Survival of thermoresistant spores primarily pose quality risks to dairy products and the public health.

Spore enumeration methods are critical for controlling possible risks and reducing economic loss in dairy manufacturing.

The main technical changes listed in the Foreword, introduced in this document compared to ISO/TS 27265 | IDF/RM 228:2009, are considered as minor (see ISO 17468).

These technical changes in Procedure A (see Clause 4) have a minor impact on the performance characteristics of the method.

NOTE Procedure B (see Clause 4) was not included in the first edition of this document.