

Food microbiology**Method 23: Microbiology of food and animal feeding stuffs—Horizontal method for the enumeration of psychrotrophic microorganisms**

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FT-004, Food Microbiology to supersede AS 1766.2.14:1991, *Food microbiology—Examination for specific organisms*, Method 2.14: *Psychrotrophic organisms in dairy products*.

This Standard is identical with and reproduced from ISO 17410:2001, *Microbiology of food and animal feeding stuffs—Horizontal method for the enumeration of psychrotrophic microorganisms*.

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee FT-004. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify a method for the enumeration of psychrotrophic microorganisms by means of the colony-count technique at 6.5°C. The method is applicable to products intended for human consumption or for animal feeding stuffs.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, ‘this International Standard’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.
- (d) Substitute ‘mL’ for ‘ml’ wherever it appears.

References to International Standards should be replaced by references to equivalent Australian Standards as follows:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
ISO	AS
6887 Microbiology of food and animal feeding stuffs—Preparation of test samples, initial suspension and decimal dilutions for microbiological examination	5013 Food microbiology
6887-1 Part 1: General rules for the preparation of the initial suspension and decimal dilutions	5013.11.1 Method 11.1: Microbiology of food and animal feeding stuff—Preparation of test sample, initial suspension and decimal dilutions for microbiological examination—General rules for the preparation of the initial suspension and decimal dilutions

ISO		AS	
7218	Microbiology—General guidance for microbiological examination	5013.14	Method 14: Microbiology of food and animal feeding stuffs—General rules for microbiological examination
8261	Milk and milk products—Preparation of samples and dilutions for microbiological examination	5013.17	Method 17: Milk and milk products—Preparation of samples and dilutions for microbiological examination

The laboratory should have a clearly defined quality control system to ensure that the apparatus, culture media, reagents and technique are suitable for the test. The use of positive controls is part of this system.

1 Scope

This International Standard specifies a method for the enumeration of psychrotrophic microorganisms by means of the colony-count technique at 6,5 °C. The method is applicable to products intended for human consumption or for animal feeding stuffs.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 6887-1, *Microbiology of food and animal feeding stuffs — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 1: General rules for the preparation of the initial suspension and decimal dilutions.*¹⁾

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

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

3 Term and definition

For the purposes of this International Standard, the following term and definition applies.

3.1

psychrotrophic microorganism

bacteria, yeasts and moulds forming countable colonies under the conditions specified in this International Standard

4 Principle

4.1 Two agar plates are prepared using a solid non-selective culture medium, and using a specified quantity of the test sample if the initial product is liquid, or using a specified quantity of an initial suspension in the case of other products. In order to prevent heat stress, surface inoculation is used.

Other pairs of agar plates are prepared, under the same conditions, using decimal dilutions of the test sample or the initial suspension.

1) Parts 2 to 5 are in preparation, see bibliography.