

Food microbiology**Method 21: Meat and meat products—Enumeration of *Pseudomonas* spp.**

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FT-004, Food Microbiology.

This Standard is identical with and reproduced from ISO 13720:1995, *Meat and meat products—Enumeration of Pseudomonas spp.*

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 *Pseudomonas* spp. present in meat and meat products, including poultry.

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—General guidance for the preparation of dilutions for microbiological examination	5013	Food microbiology
		5013.11.1	Method 11.1: Microbiology of food 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
7218	Microbiology—General guidance for microbiological examination	5013.14	Method 14: Microbiology of food and animal feeding stuffs—General rules for microbiological examination

With the exception of the above ISO documents, which have been adopted as Australian Standards, the ISO documents listed as normative references in Clause 2 have not been adopted as Australian Standards.

The term 'informative' has been used in this Standard to define the application of the annex to which it applies. An 'informative' annex is only for information and guidance.

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 describes a method for the enumeration of *Pseudomonas* spp. present in meat and meat products, including poultry.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3100-2:1988, *Meat and meat products — Sampling and preparation of test samples — Part 2: Preparation of test samples for microbiological examination*.

ISO 6887:1983, *Microbiology — General guidance for the preparation of dilutions for microbiological examination*.

ISO 7218:—¹⁾, *Microbiology of food and animal feeding stuffs — General rules for microbiological examinations*.

3 Definition

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

3.1 *Pseudomonas*: Bacteria of the genus of *Pseudomonas* which at 25 °C form colonies in

1) To be published. (Revision of ISO 7218:1985)

cetrimide, fucidin and cephaloridine (CFC) agar when the test is carried out in accordance with this International Standard.

4 Principle

4.1 Inoculation of the surface of a solid selective culture medium, using duplicate plates, with a specified quantity of the test sample if the product is liquid, or with a specified quantity of the initial suspension in the case of other products.

Inoculation, under the same conditions, using decimal dilutions of the test sample or of the initial suspension, with two plates per dilution.

4.2 Aerobic incubation of the plates at 25 °C for 48 h.

4.3 Calculation of the number of *Pseudomonas* per millilitre, or per gram, of sample from the number of typical and/or atypical colonies obtained on plates at dilution levels chosen so as to give a significant result, and confirmed by the oxidase test and growth on Kligler's agar.

5 Dilution fluid, culture media and reagent

5.1 General

For current laboratory practice, see ISO 7218.

5.2 Dilution fluid

See ISO 6887.