

## Australian Standard™

## Food microbiology

**Method 22: Meat and meat products—Enumeration of *Brochothrix thermosphacta*—Colony-count technique**

AS 5013.22

## 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 13722:1996, *Meat and meat products—Enumeration of Brochothrix thermosphacta—Colony-count technique*.

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 viable *Brochothrix thermosphacta* in all kinds of meat and meat products, including poultry, by means of a colony-count technique.

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

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

References to International Standards should be replaced by references equivalent to 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
6071-1	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
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 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.

Addition of cycloheximide may be useful in the suppression of fungal growth in the medium. Removal of the toxic selective agent cycloheximide is recommended by the NMKL (Nordic Committee on Food Analysis: *Brochothrix thermosphacta*. Determination in Meat and Meat Products No. 141, 1991). Supplement with or without cycloheximide is available commercially.

## 1 Scope

This International Standard specifies a method for the enumeration of viable *Brochothrix thermosphacta* in all kinds of meat and meat products, including poultry, by means of a colony-count technique.

## 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 6887:1993, *Microbiology — General guidance for the preparation of dilutions for microbiological examination*.

ISO 7218:1996, *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 *Brochothrix thermosphacta*:** Gram-positive bacteria which form characteristic oxidase-negative colonies on a solid selective medium [streptomycin sulfate/thallium acetate/actidione (STAA) agar] under the test conditions specified in this International Standard.

## 4 Principle

**4.1** Surface plating, on a solid selective culture medium contained in Petri dishes, of a specified quantity of the test sample if the initial product is liquid, or of a specified quantity of the initial suspension in the case of other products.