

Australian/New Zealand Standard™

Water microbiology

Method 22: Packaged water—Coliform bacteria and *Escherichia coli*—Membrane filtration method (ISO 9308-1:2000, MOD)

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FT-020, Water Microbiology.

This Standard is an adoption with national modifications and has been reproduced from, ISO 9308-1:2000, *Water quality—Detection and enumeration of Escherichia coli and coliform bacteria, Part 1: Membrane filtration method*. Additional requirements for Australian/New Zealand conditions are listed in Appendix ZZ which is added at the end of the source text.

The additional requirements are included to bring this Standard into line with others in the AS 4276 series to introduce quality control procedures to the method.

These technical variations apply to the following Clause of ISO 9308-1:2000:

Clause 6, Culture media and reagents.

The objective of this Standard is to establish a reference method for the detection and enumeration of coliform and *Escherichia coli* bacteria in water that has been bottled or packaged in any way for human consumption. For detailed description of the applicability of the Standard, see the Scope.

Appendix ZA provides a flow diagram of the procedure for information.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this part of ISO 9308’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand 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 stuffs—Preparation of test samples, initial suspension and decimal dilutions for microbiological examination—General rules for the preparation of the initial suspension and decimal dilutions
ISO		AS/NZS	
8199	Water quality—General guidance on the enumeration of microorganisms by culture	4276	Water microbiology
		4276.1	Method 1: General information and procedures (ISO 8199:2005, MOD)
5677	Water quality—Sampling	2031	Selection of containers and preservation of water samples for microbiological analysis
5677-3	Part 3: Guidance on the preservation and handling of samples		

The other international references have not been adopted as Australian/New Zealand Standards.

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