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Water microbiology

Method 1: Water quality — General requirements and guidance for microbiological examinations by culture (ISO 8199:2018, MOD)

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ACT Health Directorate
Australian Society for Microbiology
Australian Water Association
Chemistry Australia
National Association of Testing Authorities Australia
National Measurement Institute
NSW Health
PathWest Laboratory Medicine WA
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Water microbiology

Method 1: Water quality — General requirements and guidance for microbiological examinations by culture (ISO 8199:2018, MOD)

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Preface

This Standard was prepared by the Standards Australia Committee FT-020, Water Microbiology, to supersede AS/NZS 4276.1—2007, *Water microbiology, Method 1: General information and procedures (ISO 8199:2005, MOD)*.

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 requirements and give guidance for performing the manipulations common to each culture technique for the microbiological examination of water, particularly the preparation of samples, culture media, and general apparatus and glassware, unless otherwise required in the specific standard. It also describes the various techniques available for detection and enumeration by culture and the criteria for determining which technique is appropriate.

This Standard is mainly intended for examinations for bacteria, yeasts and moulds, but some aspects are also applicable to bacteriophages, viruses and parasites. It excludes techniques not based on culturing microorganisms, such as polymerase chain reaction (PCR) methods.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 8199:2018, *Water quality — General requirements and guidance for microbiological examinations by culture*. The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to ISO 8199:2018 for the application of this Standard in Australia.

As this Standard is reproduced from an International Standard, a full point substitutes for a comma when referring to a decimal marker.

The other international reference has not been adopted as an Australian Standard.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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