ISO 17995:2019-11 (E)

Water quality - Detection and enumeration of ther motolerant Campylobacter spp

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2
4.1 General 2
4.2 Inoculation and enrichment in selective liquid medium 2
4.3 Isolation and selection for confirmation 2
4.4 Confirmation 2

5 Culture media and reagents 3

6 Apparatus 3

7 Sampling, transport and storage 4

8 Sample processing 4
8.1 General 4
8.2 Direct inoculation into enrichment broth 4
8.3 Membrane filtration 4

9 Procedure 5
9.1 Enrichment 5
9.2 Plating on solid, selective medium 6
9.3 Reading of presumptive results 6
9.4 Confirmation 6
9.4.1 General 6
9.4.2 Selection of colonies for confirmation 6
9.4.3 Absence of growth on non-selective agar plates 7
9.4.4 Motility and cell morphology 7
9.4.5 Detection of oxidase activity 7
9.4.6 Interpretation 7
9.4.7 Further verification 8
9.5 Identification of Campylobacter species (optional) 8
9.5.1 General 8
9.5.2 Detection of catalase 8
9.5.3 Detection of hippurate hydrolysis 8
9.5.4 Detection of indoxyl acetate hydrolysis 9
9.5.5 Interpretation 9

10 Quality assurance 9

11 Expression of results 9

12 Test report 10

Annex A (normative) Flow diagram of the method 11

Annex B (normative) Semiquantitative analysis 12

Annex C (normative) Composition and preparation of culture media and reagents 13

Annex D (normative) Performance testing for the quality assurance of the culture media 22

Annex E (informative) Performance characteristics 23

Annex F (informative) Additional information about campylobacters 24

Bibliography 25