DIN EN ISO 10272-1:2017-09 (E)

Microbiology of the food chain - Horizontal method for detection and enumeration of Campylobacter spp. - Part 1: Detection method (ISO 10272-1:2017)

Contents

Page

European foreword ... **4**

Foreword ... **5**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Principle ... **8**
4.1 General ... 8
4.2 Enrichment in selective liquid medium ... 8
4.2.1 Detection procedure A ... 8
4.2.2 Detection procedure B ... 8
4.2.3 Detection procedure C ... 8
4.3 Isolation on selective solid medium ... 9
4.3.1 Detection procedure A ... 9
4.3.2 Detection procedure B ... 9
4.3.3 Detection procedure C ... 9
4.3.4 Detection procedure A, B and C ... 9
4.4 Confirmation ... 9

5 Culture media and reagents ... **9**

6 Equipment and consumables ... **9**

7 Sampling ... **10**

8 Preparation of test sample ... **10**

9 Procedure ... **10**
9.1 General ... 10
9.2 Test portion and initial suspension ... 11
9.2.1 General ... 11
9.2.2 Detection procedure A ... 11
9.2.3 Detection procedure B ... 11
9.2.4 Detection procedure C ... 11
9.3 Enrichment ... 12
9.3.1 Detection procedure A ... 12
9.3.2 Detection procedure B ... 12
9.4 Isolation ... 12
9.4.1 Detection procedure A ... 12
9.4.2 Detection procedure B ... 12
9.4.3 Detection procedures A, B and C ... 12
9.5 Confirmation of *Campylobacter* ... 12
9.5.1 General ... 12
9.5.2 Selection of colonies for confirmation ... 13
9.5.3 Examination of morphology and motility ... 13
9.5.4 Study of aerobic growth at 25 °C ... 13
9.5.5 Detection of oxidase activity ... 13
9.5.6 Interpretation ... 13

9.6 Identification of *Campylobacter* species (optional) 14
9.6.1 General 14
9.6.2 Detection of catalase activity 14
9.6.3 Detection of hippurate hydrolysis 14
9.6.4 Detection of indoxyl acetate hydrolysis 14
9.6.5 Interpretation 15

10 Expression of results 15

11 Performance characteristics of the method 15
11.1 Interlaboratory study 15
11.2 Sensitivity 15
11.3 Specificity 15
11.4 LOD_{50} 15

12 Test report 16

Annex A (normative) **Diagram of procedures 17**

Annex B (normative) **Culture media and reagents 18**

Annex C (informative) **Method validation studies and performance characteristics 27**

Bibliography 30