

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 <i>Campylobacter</i>		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 <i>Campylobacter</i> 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