DIN EN ISO 21528-1:2017-09 (E)

Microbiology of the food chain - Horizontal method for the detection and enumeration of Enterobacteriaceae - Part 1: Detection of Enterobacteriaceae (ISO 21528-1:2017)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Principle ... **7**
4.1 Enrichment in non-selective medium ... 7
4.2 Isolation and selection for confirmation ... 7
4.3 Confirmation ... 7

5 Diluent, culture media and reagent ... **7**

6 Equipment and consumables ... **7**

7 Sampling ... **8**

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

9 Procedure ... **8**
9.1 General ... 8
9.2 Test portion and initial suspension ... 9
9.3 Enrichment ... 9
9.4 Isolation and selection for confirmation ... 9
9.4.1 Isolation ... 9
9.4.2 Selection of colonies for confirmation ... 9
9.5 Subculturing selected colonies ... 9
9.6 Biochemical confirmation tests ... 9
9.6.1 Oxidase reaction ... 9
9.6.2 Fermentation test ... 10

10 Expression of results ... **10**

11 Precision ... **10**
11.1 Interlaboratory study ... 10
11.2 Sensitivity ... 10
11.3 Specificity ... 10

12 Test report ... **10**

13 Quality assurance ... **11**

Annex A (informative) **Enumeration by MPN technique** ... **12**

Annex B (normative) **Culture media and reagents** ... **15**

Annex C (informative) **Method validation studies and performance characteristics** ... **20**

Bibliography ... **22**