DIN EN ISO 6579-1:2017-07 (E)

Microbiology of the food chain - Horizontal method for the detection, enumeratio n and serotyping of Salmonella - Part 1: Detection of Salmonella spp. (ISO 6579-1:2017)

Contents

Page

European foreword ... **4**

Foreword ... **5**

Introduction ... **7**

1 Scope ... **8**

2 Normative references ... **8**

3 Terms and definitions ... **8**

4 Principle ... **9**
4.1 General ... 9
4.2 Pre-enrichment in non-selective liquid medium ... 9
4.3 Enrichment in/on selective media ... 9
4.4 Plating out on selective solid media ... 9
4.5 Confirmation ... 10

5 Culture media, reagents, and antisera ... **10**

6 Equipment and consumables ... **10**

7 Sampling ... **11**

8 Preparation of test sample ... **11**

9 Procedure (see diagrams in Annex A) ... **11**
9.1 Test portion and initial suspension ... 11
9.2 Non-selective pre-enrichment ... 11
9.3 Selective enrichment ... 12
9.3.1 General ... 12
9.3.2 Procedure for food, animal feed samples, and environmental samples from the food production area ... 12
9.3.3 Procedure for samples from the primary production stage ... 12
9.4 Plating out ... 13
9.4.1 General ... 13
9.4.2 Procedure for food, animal feed samples, and environmental samples from the food production area ... 13
9.4.3 Procedure for samples from the primary production stage ... 13
9.5 Confirmation ... 14
9.5.1 General ... 14
9.5.2 Selection of colonies for confirmation ... 14
9.5.3 Biochemical testing ... 15
9.5.4 Serological testing ... 18
9.5.5 Interpretation of biochemical and serological reactions ... 18
9.5.6 Serotyping ... 19

10 Expression of results ... **19**

11 Performance characteristics of the method ... **19**
11.1 Interlaboratory studies ... 19
11.2 Sensitivity ... 19
11.3 Specificity ... 19
11.4 LOD_{50} ... 19

12 Test report ... **20**

Annex A (normative) **Diagrams of the procedures** ... **21**

Annex B (normative) **Culture media and reagents** ... **23**

Annex C (informative) **Method validation studies and performance characteristics** **38**
Annex D (normative) **Detection of *Salmonella enterica* subspecies *enterica* serovars Typhi and Paratyphi** **44**
Annex E (informative) **Examples of selective plating-out media** **49**
Bibliography **55**