

ISO 6579-1:2017-02 (E)

Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmo nella* - Part 1: Detection of *Salmonella* spp.

Contents	Page
Foreword	v
Introduction	vii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 General	2
4.2 Pre-enrichment in non-selective liquid medium	2
4.3 Enrichment in/on selective media	2
4.4 Plating out on selective solid media	2
4.5 Confirmation	3
5 Culture media, reagents, and antisera	3
6 Equipment and consumables	3
7 Sampling	4
8 Preparation of test sample	4
9 Procedure (see diagrams in Annex A)	4
9.1 Test portion and initial suspension	4
9.2 Non-selective pre-enrichment	4
9.3 Selective enrichment	5
9.3.1 General	5
9.3.2 Procedure for food, animal feed samples, and environmental samples from the food production area	5
9.3.3 Procedure for samples from the primary production stage	5
9.4 Plating out	6
9.4.1 General	6
9.4.2 Procedure for food, animal feed samples, and environmental samples from the food production area	6
9.4.3 Procedure for samples from the primary production stage	6
9.5 Confirmation	7
9.5.1 General	7
9.5.2 Selection of colonies for confirmation	7
9.5.3 Biochemical testing	8
9.5.4 Serological testing	11
9.5.5 Interpretation of biochemical and serological reactions	11
9.5.6 Serotyping	12
10 Expression of results	12
11 Performance characteristics of the method	12
11.1 Interlaboratory studies	12
11.2 Sensitivity	12

11.3	Specificity	12
11.4	LOD50	12
12	Test report	13
Annex A (normative) Diagrams of the procedures		14
Annex B (normative) Culture media and reagents		17
Annex C (informative) Method validation studies and performance characteristics		32
Annex D (normative) Detection of <i>Salmonella enterica</i> subspecies <i>enterica</i> serovars Typhi and Paratyphi		38
Annex E (informative) Examples of selective plating-out media		43
Bibliography		48