

ISO/TS 15213-3:2024-05 (E)

Microbiology of the food chain - Horizontal method for the detection and enumeration of *Clostridium* spp. - Part 3: Detection of *Clostridium perfringens*

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Principle	3
4.1	General	3
4.2	Enrichment in selective liquid medium	3
4.3	Isolation on selective solid medium	3
4.4	Confirmation	3
5	Culture media and reagents	3
6	Equipment and consumables	3
7	Sampling	4
8	Preparation of test sample	4
9	Procedure	5
9.1	General	5
9.2	Test portion and initial suspension	5
9.3	Selective enrichment	5
9.4	Isolation	5
9.5	Confirmation of <i>C. perfringens</i>	5
9.5.1	Selection of colonies for confirmation	5
9.5.2	Acid phosphatase test	6
9.5.3	Sulfite indole motility (SIM) agar test	6
9.5.4	Differentiation between human pathogenic and non-pathogenic <i>C. perfringens</i> strains (optional)	6
9.5.5	Interpretation	7
10	Expression of results	7
11	Indicative performance characteristics of the method	7
11.1	Validation based on principles of ISO 17468	7
11.2	Indicative performance characteristics	7
12	Test report	9
13	Quality assurance	10
Annex A (normative)	Flow diagram of the procedure	11
Annex B (normative)	Culture media and reagents	12

Annex C (informative) Indicative performance characteristics of the method using TSC isolationagarandacidphosphataseconfirmationtest	21
Annex D (informative) Indicative performance characteristics of the method using TSC isolation agar and SIM agar test	24
Annex E (informative) Indicative performance characteristics of the method using LENA isolationagarandacidphosphataseconfirmationtest	27
Annex F (informative) Indicative performance characteristics of the method using LENA isolationagarandSIMagarconfirmationtest	30
Annex G (informative) Molecular differentiation between pathogenic and non-pathogenic Clostridium perfringens	33
Bibliography	34