

DIN EN ISO 16649-3:2018-01 (E)

Microbiology of the food chain - Horizontal method for the enumeration of β -glucuronidase positive Escherichia coli - Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl- β -D-glucuronide (ISO 16649-3:2015, Corrected version 2016-12-15)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1 Scope		6
2 Normative references		6
3 Terms and definitions		7
4 Principle		7
4.1	Detection method	7
4.2	Enumeration method	8
4.2.1	Inoculation of three or five tubes of double strength liquid selective enrichment medium [5.3.1.1 a)] with an equal volume of the test sample if the initial product is liquid, or with an equal volume of the initial suspension in the case of other products	8
5 Dilution fluids and culture media		8
5.1	General	8
5.2	Dilution fluids	8
5.3	Culture media	8
5.3.1	Minerals modified glutamate medium (selective enrichment medium)	9
5.3.2	Tryptone bile glucoronide agar (second selective enrichment medium)	10
5.3.3	Performance testing for the quality assurance of the culture media	10
6 Apparatus and glassware		11
7 Sampling		11
8 Preparation of test sample		12
9 Procedure		12
9.1	Detection method	12
9.1.1	Test portion, initial suspension, and dilutions	12
9.1.2	Incubation of selective enrichment medium	12
9.1.3	Subculturing	12
9.1.4	Secondary incubation	12
9.1.5	Examination of the plates	12
9.1.6	Interpretation	12
9.2	Enumeration method	12
9.2.1	Test portion, initial suspension, and dilutions	12
9.2.2	Inoculation of the selective enrichment medium	13
9.2.3	Incubation	13
9.2.4	Subculturing	13
9.2.5	Second incubation	13
9.2.6	Examination of the plates	13
9.2.7	Interpretation	13
10 Expression of results		14
10.1	Detection method	14
10.2	Enumeration method	14
11 Precision		14
12 Test report		14
Bibliography		15