

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