ISO 6887-1:2017-03 (E)

Mi crobiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 1: General rules for the preparation of the initial suspension and decimal dilutions

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 3

5 Diluents 3
5.1 Basic materials 3
5.2 Diluents for general use 3
5.2.1 Peptone salt solution 3
5.2.2 Buffered peptone water 4
5.2.3 Double-strength buffered peptone water 4
5.3 Diluents for special purposes 4
5.4 Distribution and sterilization of the diluent 4
5.5 Performance testing for diluents 5

6 Apparatus 5

7 Sampling 6

8 Preparation of samples 6
8.1 General 6
8.2 Frozen products 7
8.2.1 General 7
8.2.2 Small samples defrosted before testing 7
8.2.3 Large pieces or blocks sampled while frozen 7
8.3 Hard and dry products 8
8.4 Dehydrated and other low-moisture products 8
8.5 Liquid and non-viscous products 8
8.6 Acidic products 8
8.7 High-fat (over 20 %) foods 9
8.8 Multi-component products 9
8.9 Packaged products 9
8.10 Surface samples (swabs and other devices) 10

9 Specificprocedures 10
9.1 Test portion and initial suspension (primary dilution) 10
9.2 Duration of the procedure 11
9.3 Pooling and compositing procedures for qualitative tests 11

10 Further dilutions 11
10.1 Decimal dilution series 11
10.2 Other dilution series 12

Annex A (informative) Illustrations of pooling and compositing procedures 13

Annex B (informative) Method for sampling frozen test pieces or blocks 18

Annex C (informative) Data showing reliability of test results according to size of test portions 20

Annex D (informative)Verificationprotocolforpoolingsamplesforqualitativetests 23

Bibliography 26