

ISO 6888-1:2021 (E)

Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) — Part 1: Method using Baird-Parker agar medium

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
4.1	General
4.2	Incubation
4.3	Enumeration and confirmation
5	Culture media and reagents
6	Equipment and consumables
7	Sampling
8	Preparation of the test sample
9	Procedure
9.1	Test portion, initial suspension and dilutions
9.2	Inoculation and incubation
9.3	Counting of colonies
9.3.1	General description of colonies growing on BPA medium
9.3.1.1	Colonies presumed to be coagulase-positive staphylococci
9.3.1.2	Colonies not presumed to be coagulase-positive staphylococci
9.3.2	Colony counting procedure
9.4	Confirmation
9.4.1	General
9.4.2	Tube test
9.4.3	Plate test using RPFA medium
10	Expression of results
11	Performance characteristics of the method
11.1	Interlaboratory study
11.2	Repeatability limit
11.3	Reproducibility limit
12	Test report
13	Quality assurance
Annex A	(normative) Flow diagram of the procedure
Annex B	(normative) Culture media and reagents
B.1	General

- B.2 BPA medium[10][16]**
- B.2.1 Base medium**
- B.2.1.1 Composition**
- B.2.1.2 Preparation**
- B.2.2 Solutions for BPA medium**
- B.2.2.1 Potassium tellurite solution**
- B.2.2.1.1 Composition**
- B.2.2.1.2 Preparation**
- B.2.2.2 Egg yolk emulsion (concentration approximately 20 % (e.g. 200 ml/l) or according to the manufacturer's instructions)**
- B.2.2.2.1 General**
- B.2.2.2.2 Preparation**
- B.2.2.3 Sulfamezathine (sulfamethazine, sulfadimidine) solution[16]**
- B.2.2.3.1 Composition**
- B.2.2.3.2 Preparation**
- B.2.3 Complete BPA medium**
- B.2.3.1 Composition**
- B.2.3.2 Preparation**
- B.2.4 Preparation of BPA plates**
- B.3 BHI broth**
- B.3.1 Composition**
- B.3.2 Preparation**
- B.4 Rabbit plasma**
- B.5 RPFA medium**
- B.5.1 Base medium**
- B.5.2 Solutions for RPFA medium**
- B.5.2.1 Potassium tellurite solution**
- B.5.2.2 Bovine fibrinogen solution**
- B.5.2.2.1 Composition**
- B.5.2.2.2 Preparation**
- B.5.2.3 Rabbit plasma and trypsin inhibitor solution**
- B.5.2.3.1 Composition**
- B.5.2.3.2 Preparation**
- B.5.3 Complete RPFA medium**
- B.5.3.1 Composition**
- B.5.3.2 Preparation**
- B.5.4 Preparation of RPFA plates**
- B.6 Performance testing**

Annex C (informative) Results of the interlaboratory study

Page count: 20