



National Standard of the People's Republic of China

GB 4789.10-2010
Replace GB/T 4789.10-2008

National food safety standard

Food microbiological examination: Staphylococcus aureus

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of the People's Republic of China**

Preface

This standard replaces GB/T 4789.10-2008 Microbiological examination of food hygiene- Detection of *Staphylococcus aureus* and GB/T4789.37-2008 Microbiological examination of food hygiene- Enumeration of *Staphylococcus aureus*.

The main revised content of this standard to GB/T 4789.10-2008 and GB/T 4789.37-2008 are as follows:

- The Chinese and English name of the standard has been changed.
- The scope has been amended.
- Procedure of sample preparation has been standardized.
- Explanation of *Coefficient 1.1* in the Calculation Formula has been added.
- The name of *Trypticase soy broth* has been standardized and changed to *10% sodium chloride Trypticase soy broth*.
- Method 2 - Baird-Parker enumeration of *Staphylococcus aureus* and Method 3 –MPN enumeration of *Staphylococcus aureus* have been added.

Appendix A, *Appendix B* and *Appendix C* of this standad are normative appendixes.

This standard replaces all previous standard as follows:

- GB 4789.10-1984, GB 4789.10-1994, GB/T 4789.10-2003, GB/T 4789.10-2008.
- GB/T 4789.37-2008.

National food safety standard

Food microbiological examination: *Staphylococcus aureus*

1. Scope

This standard stipulates the examination method for *staphylococcus aureus* in foods.

Method 1 in this standard applies to qualitative examination of *staphylococcus aureus* in foods. *Method 2* applies to enumeration of *staphylococcus aureus* in foods relatively containing more *Staphylococcus aureus*. *Method 3* applies to enumeration of *staphylococcus aureus* in foods relatively containing fewer *Staphylococcus aureus* but more other microorganism.

2. Apparatus and Materials

In addition to the conventional apparatus for sterilization and culture in microbiological laboratory, other apparatus and materials are as follows:

2.1 Constant temperature incubator: $36 \pm 1^{\circ}\text{C}$

2.2 Refrigerator: $2 \sim 5^{\circ}\text{C}$

2.3 Constant temperature water bath: $37 \sim 65^{\circ}\text{C}$

2.4 Balance weighing to 0.1g

2.5 Homogenizer

2.6 Oscillator

2.7 Sterile pipette: 1ml with graduation of 0.01ml, 10 ml with graduation of 0.1ml, or micropipette and pipette tips

2.8 Sterile conical flask: 100 ml and 500ml

2.9 Sterile petri dish: diameter 90mm

2.10 Injector: 0.5mL

2.11 pH meter or pH colorimetric tubes or precise pH test paper

3. Culture medium and Reagent

3.1 10% sodium chloride trypticase soy broth: See A.1 in *Appendix A*.

3.2 7.5% sodium chloride broth: See A.2 in *Appendix A*.

3.3 Plasma agar plate: See A.3 in *Appendix A*.

3.4 Baird-Parker agar plate: See A.4 in *Appendix A*.

3.5 Brain heart infusion broth (BHI): See A.5 in *Appendix A*.

3.6 Rabbit plasma: See A.6 in *Appendix A*.



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