



GB 4789.10-2016

National Food Safety Standard Food Microbiological Examination: Staphylococcus Aureus

食品安全国家标准 食品微生物学检验
金黄色葡萄球菌检验

Issued by: National Health and Family Planning
Commission of the People's Republic of China
and China Food and Drug Administration

Translated by ChemLinked

Issued on: Dec. 23, 2016

Implemented on: Jun. 23, 2017


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National Standard of the People's Republic of China

GB 4789.10-2016

In Replacement of GB 4789.10-2010

National Food Safety Standard

Food microbiological examination: Examination of *Staphylococcus aureus*

食品安全国家标准 食品微生物学检验 金黄色葡萄球菌检验

Date of publication: 2016-12-23

Date of implementation: 2017-06-23

Issued by:

National Health and Family Planning Commission of the People's Republic of China
China Food and Drug Administration

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Foreword

This standard replaces GB 4789.10–2010 “National food safety standard Food microbiological examination: Examination of *Staphylococcus aureus*”, SN/T 0172–2010 “Determination of *Staphylococcus aureus* in foods for import and export” and SN/T 2154–2008 “Determination of coagulase–positive *staphylococci* in import and export food—Technique using rabbit plasma fibrinogen agar medium”.

Compared with GB 4789.10–2010, major changes of this standard are as follows:

——the enrichment solution for test shall be 7.5 % sodium chloride broth.

National Food Safety Standard

Food microbiological examination: Examination of *Staphylococcus aureus*

1. Scope

This standard specifies the method for examination of *Staphylococcus aureus* in foods.

Method I of this standard applies to the qualitative test of *Staphylococcus aureus* in foods; Method II applies to the enumeration of *Staphylococcus aureus* in foods with high content of *Staphylococcus aureus*; Method III applies to the enumeration of *Staphylococcus aureus* in foods with low content of *Staphylococcus aureus*.

2. Apparatus and Materials

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

2.1 Constant temperature incubator: 36 °C±1 °C.

2.2 Refrigerator: 2 °C~5 °C.

2.3 Constant temperature water bath: 36 °C~56 °C.

2.4 Balance: with sensitivity of 0.1 g.

2.5 Homogenizer.

2.6 Oscillator.

2.7 Sterile pipette: with normal capacities of 1 mL (graduated in 0.01 mL division) and 10 mL (graduated in 0.1 mL division) or micropipette and pipette tips.

2.8 Sterile conical flask: with nominal capacities of 100 mL and 500 mL.

2.9 Sterile culture dish: with diameter of 90 mm.

2.10 Spreading rod

2.11 pH meter or pH colorimetric tube or precise pH test paper.

3. Culture Mediums and Reagents

3.1 7.5 % sodium chloride broth: see A.1.

3.2 Blood agar plate: see A.2.

3.3 Baird-Parker agar plate: see A.3.

3.4 Brain heart infusion (BHI) broth: see A.4.

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