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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4789.37-2008

Replacing GB/T 4789.10-2003

**Microbiological examination of food hygiene -- Enumeration of
staphylococcus aureus
(English Translation)**

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Foreword

The first method of the present standards of international analysts revise Society (AOACINTERNATIONAL) AOAC975.55 "food gold surfaceplatingmethodisolationandenumeration, 1976), the International Organization for Standardization (ISO) ISO 6888-1:1999 "food Products and animal feed coagulase positive staphylococci counting method "(Microbiologyoffoodandanimalfeedingstuffs-andotherspecies, 1999); a second modification of international law Analysts Society (AOACINTERNATIONAL) AOAC987.09 AOAC2003.07 "processed foods Staphylococcus aureus count by the International Institute analyst (AOACINTERNATIONAL) Petrifilm test piece Law "(2003) (AOACOfficialMethod2003.07,3MTMPetrifilmTMstaphexpresscount foods. colaborativestudy), AOAC2003.08 "dairy Staphylococcus aureus test Petrifilm count plate method" (2003) (AOACOfficialMethod2003.08,3MTMPetrifilmTMstaphexpresscountplatemethodforthe Aureus test Petrifilm count plate method "(2003) (AOACOfficialMethod2003.11,3MTM PetrifilmTM meats, seafoodandpoultry).

The first standard method and AOAC975.55 and ISO 6888-1:1999 The main difference is as follows.

--- The AOAC sample preparation and sampling of 50g (or 50mL) modified to 25g (or 25mL);

--- Modify the formulas of ISO .

The main difference between this standard and AOAC987.09 second method is as follows. The sample preparation and sampling of 50g (or 50mL) is amended as 25g (Or 25mL).

The third standard method and AOAC2003.07, AOAC2003.08, the main difference AOAC2003.11 follows.

--- The culture temperature of the test piece $35\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ or $37\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ unified $36\text{ }^{\circ}\text{C} \pm 1$

°C;

--- Provisions of the suspected colonies on the test piece to be acknowledged.

Since the implementation of this standard Staphylococcus aureus counting section GB/T 4789.10-2003 repealed simultaneously.

The Standard Annexes A and B are normative appendix.

This standard is proposed and administered by the People's Republic of China Ministry of Health.

This standard by the People's Republic of China Ministry of Health is responsible for interpretation.

1 Scope

This standard specifies the method for counting Staphylococcus aureus in food.

This standard applies to foods and food poisoning count samples of Staphylococcus aureus. Wherein the first law applies to Staphylococcus aureus Higher levels of food; second law applies to Staphylococcus aureus bacteria content is low and the higher content of food; third method is suitable for meat and Products, dairy products and so on.

2 Equipment and Materials

In addition to the microbiological laboratory conventional sterilization and cultivation equipment, other equipment and materials as follows.

2.1

incubator. $36\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

2.2

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

2.3

constant temperature water bath. $37\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$.

2.4

Balance. a sense of the amount of 0.1g.

2.5

homogenizer.

2.6

oscillator.

2.7

sterile pipette. 1mL (with 0.01mL scale), 10mL (with 0.1mL scale) or micro pipettes and tips.

2.8

sterile conical flask. capacity 100mL, 500mL.

2.9

sterile Petri dish. diameter of 90mm.

2.10

sterile L-type coating bar.

2.11

pH meter or pH colorimetric tubes or precision pH test paper.

3.1 Trypticase soy broth. see Section A. Chapter 1

3.2 Baird-Parker agar plates. see Section A. 2.

3.3 brain heart infusion (BHI) broth. See Section A. 3.

3.4 Rabbit plasma. see Section A. 4.

3.5 phosphate buffer. see Section A. 5.

3.6 nutrient agar slant. see Section A. 6.

3.7 Gram stain solution. See Section A. 7.

3.8 sterile saline. Weigh 8.5g of sodium chloride dissolved in 1000mL of distilled water, 121 °C autoclave 15min.

3.9 1mol/L sodium hydroxide (NaOH). Weigh 40g of sodium hydroxide dissolved in 1000mL of distilled water.

3.10 1mol/L hydrochloric acid (HCl). Pipette concentrated hydrochloric acid 90mL, diluted with distilled water to 1000mL.

3.11 PetrifilmTM1) Staphylococcus aureus test piece.

1) PetrifilmTM are provided by 3M Company under the trade name product. This information is given for the convenience of users of this standard does not mean that the product Recognition. If other equivalent product has the same effect, you can use these equivalent products.