

Preface

This standard replaces GB/T4789.2-2008 “Food hygiene microbiological examination—Aerobic plate count”.

Compared with GB/T 4789.2-2008, major changes are as follows:

- the Chinese and English titles of the standard have been revised;
- the interpretation of the calculation formula of aerobic plate count has been revised;
- the culture mediums and reagents have been revised;
- the “Method II Petrifilm™ testing slip method for aerobic plate count” has been deleted.

Annex A of this standard is a normative annex.

This standard replaces all previous standards, those issued editions are:

- GB 4789.2-1984, GB 4789.2-1994, GB/T 4789.2-2003, GB/T 4789.2-2008.

National Food Safety Standard

Food Microbiological Examination: Aerobic Plate Count

1. Scope

This standard specifies the method for the determination of aerobic plate count in foods.

This standard is applicable to the determination of aerobic plate count in foods.

2. Terms and definitions

2.1 Aerobic plate count

The aerobic plate count produced in 1g (or 1mL) of test sample after the food test sample was treated and incubated at certain conditions (such as culture medium, cultivation temperature and time, etc.).

3. Apparatus and materials

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

3.1 Constant temperature incubator: $36^{\circ}\text{C}\pm 1^{\circ}\text{C}$, $30^{\circ}\text{C}\pm 1^{\circ}\text{C}$

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

3.3 Constant temperature water bath: $46^{\circ}\text{C}\pm 1^{\circ}\text{C}$

3.4 Balance: with sensitivity of 0.1g

3.5 Homogenizer

3.6 Vibrator

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