



National Standard of the People's Republic of China

GB 4789.2-2010

National Food Safety Standard
Food microbiological examination:
Aerobic plate count
食品安全国家标准
食品微生物学检验 菌落总数测定

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Contents

Foreword	1
1. Scope	1
2. Terms and Definitions	1
3. Equipment and Materials	1
4. Culture Medium and Reagents	1
5. Examination Procedures	1
6. Operation Procedures	2
7. Results and reports	3
Annex A (Normative) Culture Mediums and Reagents	5

Foreword

The standard substitutes the GB/T 4789.2-2008 *Microbiological Examination in Foods: Aerobic Plate Count*

Compared with the GB/T 4789.2-2008 main changes are following:

- The Chinese and English names of the standard are revised.
- The explanation of the calculation formula of Aerobic Plate Count is revised.
- The culture mediums and reagents are revised.
- The 2nd method: Petrifilm™ for aerobic plate count is deleted. The annex A of the standard is the normative annex.

The releases of all editions substituted by this Standard are as follows:

- GB 4789.2-1984, GB/T 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 defines the determination method of aerobic plate count in foods.

This Standard is applicable to the determination method of aerobic plate count in all kinds of foods.

2. Terms and Definitions

2.1 Aerobic plate count

The aerobic plate count obtained from 1ml (or 1g) of sample under certain cultivation conditions (such as the ingredients of culture medium, cultivation temperature and time, pH, and aerobic, etc) after proper treatment.

3. Equipment and Materials

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

3.1 Thermostatic cultivator: $36 \pm 1^{\circ}\text{C}$, $30 \pm 1^{\circ}\text{C}$

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

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

3.4 Balance: accuracy of 0.1g.

3.5 Homogenizer.

3.6 Oscillator.

3.7 Sterile pipette: 1ml (with a scale of 0.01ml), 10ml(with a scale of 0.1ml) or micropipettor and tips.

3.8 Sterile conical beaker: 250ml, 500ml.

3.9 Sterile culture plate: with a diameter of 90mm.

3.10 pH meter or pH colorimetric tube or precise pH indicator paper.

3.11 Magnifying glass or/ and bacterial colony counter.

4. Culture Medium and Reagents

4.1 Agar Culture Medium for plate count: please refer to Annex A.1.

4.2 Phosphate buffer solution: please refer to Annex A.2.

4.3 Sterile normal saline solution: please refer to Annex A.3.3

5. Examination Procedures

For the examination procedures of aerobic plate count, please refer to Fig.1.



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