

Preface

This standard replaces GB/T 4789.3-2008 “Food hygiene microbiological examination: Enumeration of coliforms”.

Compared with GB/T 4789.3-2008, major changes of this standard are as follows:

- Chinese and English name of the standard have been revised;
- The selection scope of plate colony counts in “Method II Coliforms plate counts” has been changed to “15 CFU~150 CFU”;
- “Method III Coliforms Petrifilm™ testing slip method” has been deleted.

The Annex A and Annex B here of the standard are normative annex. The releases of all editions substituted by this Standard are as follows:

- GB 4789.3-1984, GB 4789.3-1994, GB/T 4789.3-2003, GB/T 4789.3-2008.

National Foods Safety Standard

Food microbiological examination: Enumeration of coliforms

1. Scope

This standard specifies the method for the enumeration of coliforms in foods.

This standard is applicable to the enumeration of coliforms in foods.

2. Terms and definitions

2.1 Coliforms

A cluster of concurrently aerobic and anaerobic gram negative sporeless bacilli which can ferment lactose and generate acid and gas under a certain culture condition.

2.2 Most probable number, MPN

A Poisson distribution-based indirect count method.

3. Apparatus and materials

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

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

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.

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