



GB 4789.35-2016

# **National Food Safety Standard**

## **Food Microbiological Examination: Examination for Lactic Acid Bacteria**

食品安全国家标准 食品微生物学检验  
乳酸菌检验

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

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*Translated by ChemLinked*

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## National Standard of the People's Republic of China

GB 4789.35-2016

### National Food Safety Standard Food Microbiological Examination: Examination for Lactic Acid Bacteria

食品安全国家标准

食品微生物学检验 乳酸菌检验

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China Food and Drug Administration

## Foreword

This standard replaces GB 4789.35-2010 “National Food Safety Standard Food Microbiological Examination: Examination for Lactic Acid Bacteria”, SN/T 1941.1-2017 “Detection of Lactic Acid Bacteria in Food for Import and Export - Part 1: Isolation and enumeration method”.

Compared with GB 4789.35-2010, major changes of this standard are as follows:

- the incubation condition selection and result illustration of total lactic acid bacteria count enumeration have been added;
- the “Modified MRS medium components” has been revised;
- the inoculation method and inoculation amount of plate count has been revised.

## National Food Safety Standard

### Food Microbiological Examination: Examination for Lactic Acid Bacteria

#### 1 Scope

This standard specifies the examination method for lactic acid bacteria in foods.

This standard applies to the examination for lactic acid bacteria in foods containing active lactic acid bacteria.

#### 2 Terms and Definitions

##### 2.1

##### Lactic acid bacteria

It is the termini generals of a class of bacteria which can ferment sugars and mainly produce large amounts of lactic acid. The lactic acid bacteria in this standard mainly refer to *Lactobacillus*, *Bifidobacterium* and *Streptococcus*.

#### 3 Apparatus and Materials

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

**3.1** Constant temperature incubator: 36 °C±1 °C.

**3.2** Refrigerator: 2 °C~5 °C.

**3.3** Homogenizer and sterile homogenization bag, homogenization cup or sterile mortar.

**3.4** Balance: with sensitivity of 0.1 g.

**3.5** Sterile test tube: 18 mm×180 mm and 15 mm×100 mm.

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

**3.7** Sterile conical flask: with nominal capacities of 250 mL and 500 mL.



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