



National Standard of the People's Republic of China

GB 4789.1 – 2010

National Food Safety Standard
Food Microbiological Examination: General Guidelines

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Issued by the Ministry of Health of the People's Republic of China

Preface

This Standard replaces GB/T 4789.1-2008 *Food Microbiological Examination: General Guidelines*.

Compared with GB/T 4789.1-2008, the main changes are as follows:

——Change the Chinese and English titles of the Standard;

——Change the selection of analytical methods.

The issuance status of all the previous editions replaced by this Standard is:

—— **GB 4789.1 – 1984, GB 4789.1 – 1994, GB/T 4789.1 – 2003 and GB/T 4789.1 – 2008.**

National Food Safety Standard

Food Microbiological Examination: General Guidelines

1 Scope

This Standard specifies the basic principles and requirements of food microbiological examination.

This Standard is applicable to food microbiological examination.

2 Cited Normative Documents

The cited normative documents are indispensable for the application of this Standard. For the cited documents indicated with date, all of its subsequent amendment lists (not including errata) or revisions are not applicable to this Standard. The latest versions including all subsequent amendment lists of all cited documents without date indicated are applicable to this Standard.

3 Basic Requirements of Laboratory

3.1 Environment

- 3.1.1 The laboratory environment shall not impact the accuracy of the test results.
- 3.1.2 The working and office regions shall be clearly separated from each other.
- 3.1.3 The working area and general layout of the laboratory shall meet the requirements of testing. The laboratory layout shall be arranged in single-way flowing direction according to the working process, so as to avoid cross-contamination.
- 3.1.4 The ambient temperature, humidity, illuminance, noise level and cleanliness etc in the laboratory shall meet the working requirements.
- 3.1.5 Generally, sample examination shall be carried out in clean area (including super-clean work bench or clean laboratory) with obvious signs.
- 3.1.6 The separation and identification of pathogenic micro-organism shall be carried out in Biosafety Level 2 laboratory (BSL-2).

3.2 Personnel

- 3.2.1 The analyst shall have adequate education, microbiological professional training and related qualification, and be able to understand and implement the examination correctly.
- 3.2.2 The analyst shall master the knowledge of safe operation and disinfection for biological examination in laboratory.
- 3.2.3 During the whole examination, the analyst shall keep personal neatness and sanitation to prevent man-made pollution of the sample.
- 3.2.4 The analyst shall comply with related regulation requirement of prevention measures to ensure his/her own security.
- 3.2.5 The analyst with color vision disorder is prohibited from carrying out any color discrimination-involving examination.



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