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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 18204.3-2013

Replace GB/T 18204.1-2000

Partly replace GB/T 17220-1998

公共场所卫生检验方法

第 3 部分：空气微生物

**Examination Methods for Public Places-Part 3:
Airborne Microorganism**

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Quarantine of the People's Republic of China

Standardization Administration of the People's Republic of China

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Foreword

GB/T 18204 *Examination Methods for Public Places-Part 3: Airborne Microorganism* is divided into six parts:

- Part 1: Physical Parameters;
- Part 2: Chemical Pollutants;
- Part 3: Airborne Microorganism;
- Part 4: Microorganism on a Surface of Public Articles;
- Part 5: Central Air Conditioning Ventilation System;
- Part 6: Technical Specifications of Health Monitoring.

This Part is Part 3 of GB/T 18204.

This Part is drafted according to the rules specified in GB/T 1.1-2009.

This part replaces GB/T 18204.1-2000 *Methods of Microbiological Examination for Air in Public Places-Determination of Aerobic Bacterial Count*; in partially replacement of the requirements for sampling of airborne microorganism specified in GB/T 17220-1998 *Technical Rules of Health Monitoring for Public Places*.

Compared this Standard with GB/T 18204.1-2000 and GB/T 17220-1998, the main changes are as follows:

- Increased inspection method of total fungus count;
- Increased inspection method of β hemolytic streptococcus;
- Increased inspection method of legionella pneumophila.

This Part is proposed by and under the jurisdiction of Ministry of Health of the People's Republic of China.

This Part is explained by the Ministry of Health of the People's Republic of China.

The responsible drafting organizations of this Standard is Institute of Environmental Health and Related Product Safety, China CDC.

The participated drafting organizations of this Standard are Centers for Disease Control and Prevention of Jiangsu Province, Centers for Disease Control and Prevention of Shenzhen, Maanshan Health Bureau Health Supervision Institute.

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After this Part is implemented, all the content of GB/T 18204.1-2000 and corresponding content of GB/T 17220-1998 will be abolished at the same time.

The historical edition issued of GB/T 18204-2000:

- GB/T 18204.1-2000.

The historical edition issued of GB/T 17220-1998:

- GB/T 17220-1998.

Examination Methods for Public Places-Part3: Airborne Microorganism

1 Scope

This Part of GB/T 18204 specifies total bacteria count, total fungus count in air of public places, site sampling and lab cultivation method of β hemolytic streptococcus and legionella pneumophila.

This Part applies to the determination of total bacteria count, total fungus in air of public plate, and determination of **β -hemolytic streptococcus** and legionella pneumophila. In other places, implement referring thereto.

Note: In this part, in case there are 2 or more inspection methods for the same index, select and use according to technical conditions.

2 Terms and Definitions

The following terms and definitions shall apply to this reference.

2.1

Total Bacterial Count

As for the sample collected in air of public places, count the total count of mesophile aerobic and facultative anaerobe colony cultivated and grown under the temperature of 35°C-37°C for 48h on the nutrient agar.

2.2

Total Fungi Count

As for the sample collected in air of public places, count the number of bacterial colonies formed after 5-day cultivation under the temperature of 28°C on Savary-Gilliard agar.

2.3

β -hemolytic streptococcus

Sample collected in air of public places is cultivated under the temperature of 35°C-37°C for 24h-48h, forms typical bacterial colony on blood agar plate.

2.4

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