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

GB/T 21754-2025

Replacing GB/T 21754-2008

Chemicals - Test method of 28 day (subacute) inhalation toxicity

化学品 28天(亚急性)吸入毒性试验方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document supersedes GB/T 21754-2008 "Test Method for Inhalation Toxicity of Chemicals with Repeated Dose over 28 Days/14 Days" and is consistent with GB/T Compared to 2008, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- The scope has been changed (see Chapter 1, Chapter 1 of the 2008 edition);
- Terminology and Definitions, Abbreviations have been revised (see Chapters 3 and 4, Chapter 2 of the 2008 edition);
- The "Test Methods" section has been revised, and "Dose Exploration Trials" has been added (see Chapter 6, Chapter 4 of the 2008 edition);
- The "Test Method" has been modified, including the mass median aerodynamic diameter (MMAD) and geometric standard deviation of particulate aerosols. (GSD) requirements (see Chapter 6, 6.7, 4.4.2 of the 2008 edition);
- The "Test Methods" have been modified to include the detection and analysis of bronchoalveolar lavage fluid and lung load, as well as pathological examination of lung tissue (see section [number]).

Chapter 6, 6.8 (4.4.1 in the 2008 edition);

- An "Appendix A Test Protocol" has been added (see Appendix A).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Hazardous Chemicals Management (SAC/TC251).

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The release history of this document and the document it replaces is as follows.

- First published in 2008 as GB/T 21754-2008;
- This is the first revision. Chemicals, 28 days (subacute) Inhalation toxicity test method

1 Scope

This document describes the test method for the 28-day (subacute) inhalation toxicity of chemicals.

This document applies to 28-day (subacute) inhalation toxicity testing of chemicals.

2 Normative references

GB 14925

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Aerosol

A suspension formed by solid particles or liquid droplets suspended in a gas.

3.2 dust

Solid particles formed from a single substance or mixture that can be suspended in the air.

3.3 mist

A state formed by droplets of a single substance or mixture of substances of varying sizes

from 2 μ m to 100 μ m suspended in the air.

3.4 Vapor

A gaseous state formed by a single substance or mixture that is in a liquid or solid state at room temperature and pressure.

3.5 concentration

In inhalation toxicity tests, the concentration of the test substance in the air inhaled by experimental animals is measured.

4 Abbreviations

The following abbreviations apply to this document.