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

GB/T 21459.1-2025

Replacing GB/T 21459.1-2008

**Specification for drafting standards of fungal pesticide
technical concentrates (TK)**

真菌农药母药产品标准编写规范

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Standardization Administration of the PRC**

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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 is Part 1 of GB/T 21459. GB/T 21459 has the following parts published.

---GB/T 21459.1 Specifications for Drafting Standards for Technical Grades of Fungal Pesticides;

---GB/T 21459.2 Specifications for Drafting Standards for Fungal Pesticide Powders;

---GB/T 21459.3 Specifications for Drafting Product Standards for Wettable Powder Fungal Pesticides;

---GB/T 21459.4 Specifications for Drafting Product Standards for Fungal Pesticide Oil Suspension Concentrates;

---GB/T 21459.5 Specifications for Drafting Standards for Fungal Pesticide Bait Products. This document supersedes GB/T 21459.1-2008 "Specifications for Writing Standards for Fungal Pesticide Technical Preparations" and is consistent with GB/T 21459.1-2008. Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) Terms and definitions have been changed (see Chapter 3, Chapter 3 of the.2008 edition);
- b) The "Bacterial Count" control item has been changed (see 4.3,.2008 version 4.3);
- c) The "Viable Productivity" control item has been removed (see 4.3 in the.2008 version);
- d) The "Chemical Impurities" control item and determination method have been removed (see sections 5.6 of the.2008 edition);
- e) The "toxicity" control item and determination method have been removed (see

1 Scope

GB/T 21459.1-2025 is the Chinese national standard covering the technical concentrate a fungal biopesticide is formulated from - the spore concentration and viability, the identity of the strain, the contaminants, and the storage conditions that keep a living active ingredient alive until it is formulated. Part 1 of the series, and the parent of the formulation parts. It replaces GB/T 21459.1-2008, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 21459.1-2008.

This document specifies the technical requirements, test methods, inspection rules, acceptance and quality guarantee period, and marking for fungal pesticide technical materials products. Requirements for the content and writing of labels, packaging, storage and transportation, etc. This document applies to the drafting of product standards for fungal pesticide technical materials.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1601 Method for Determination of pH Value of Pesticides

GB/T 1604 Rules for Acceptance of Commercial Pesticides

GB/T 1605 Sampling Methods for Commercial Pesticides

GB 3796 General Rules for Pesticide Packaging

GB/T 28135 Determination of Acidity (Alkalinity) of Pesticides - Indicator Method

GB/T 30361 Determination of Loss on Drying of Pesticides

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 spore The reproductive body of a fungus.

Note. There are various types, including conidia, budspores, and chlamydo spores.

3.2 Conidia Colorless or colored spores produced by conidiophore cells (terminal/lateral, chain/clustered, various shapes and sizes, unicellular/multicellular) Asexually reproducing cells.

Note. This is the most common spore type in fungal pesticides.

3.3 microbial density The number of live bacterial colonies in a unit mass or volume of fungal pesticides.

3.4 sporecontent;sporeconcentration The number of fungal spores, the active ingredient in fungal pesticides, per unit mass or volume.

Note. The number of live spores per unit mass or volume of fungal pesticide.

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