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

GB/T 19567.1-2025

Replacing GB/T 19567.1-2004

Bacillus thuringiensis technical concentrate

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Technical Requirements

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 replaces GB/T 19567.1-2004 "Bacillus thuringiensis raw powder". Compared with GB/T 19567.1-2004, except for the structure... Aside from adjustments and editorial changes, the main technical changes are as follows:

---The specifications and control indicators of Bacillus thuringiensis technical drug have been changed, and the grading and classification have been changed to a unified standard, and the indicators no longer differentiate between different grades. Same subspecies (see 4.2,

3.2 in the.2004 edition);

---The instructions for the test insects used in the determination of the toxicity potency of Bacillus thuringiensis technical drug have been revised (see 4.2,

3.2 in the.2004 edition);

---The pH value of the Bacillus thuringiensis technical material has been changed (see 4.2, 3.2 in the.2004 edition);

---The wet screening test criteria for Bacillus thuringiensis technical material have been removed (see section

3.2 of the.2004 edition);

---Added inspection rules (see Chapter 6);

---The method for determining the virulence potency of Bacillus thuringiensis suspension has been modified, stipulating that the method using cotton bollworm as the test insect is the arbitration method (see...). Appendix C, Appendix B of the.2004 edition. 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 by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Pesticide Standardization (SAC/TC133). This document was drafted by: Institute for the Control of Agrochemicals, Ministry of Agriculture and Rural Affairs; Wuhan Kenuo Biotechnology Co., Ltd.; and Fujian Lv'an Biopesticide Co., Ltd. Limited Liability Company, Hubei Provincial Biological Pesticide Engineering Research Center, and Shenyang Shenhua Institute Testing Technology Co., Ltd. The main drafters of this document are: Wang Wenzhuo, Yang Siqi, Liu Yuheng, Jiang Yifei, Wu Jinlong, Li Peize, Liu Ying, Liao Xianjun, Kou Yalan, and Yang Wenhan. Li Qing, Yao Rongying, and Wang Kaimei. The release history of this document and the document it replaces is as follows:

---First published in 2004 as GB/T 19567.1-2004;

---This is the first revision. *Bacillus thuringiensis* technical drug

1 Scope

GB/T 19567.1-2025 is the Chinese national standard covering the Bt concentrate before formulation - the toxin potency in international units, the viable spore count, the strain identity, the contaminating microorganisms and the beta-exotoxin that must be absent, and the storage of a living product. It replaces GB/T 19567.1-2004, with the wettable powder standard GB/T 19567.3-2025. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026, replacing GB/T 19567.1-2004.

This document specifies the technical requirements, inspection rules, acceptance and quality guarantee period for *Bacillus thuringiensis* technical materials, as well as their marking, labeling, packaging, and storage. The study described the experimental methods for the *Bacillus thuringiensis* parent drug. This document applies to the quality of *Bacillus thuringiensis* subsp. *cathayensis* (Bta) and *Bacillus thuringiensis* subsp. *kurstaki* (Btk) technical products. control.

Note. Other names, taxonomic status, and morphological characteristics of *Bacillus thuringiensis* are described in Appendix A.

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 1600-2021 Method for Determination of Moisture Content in Pesticides

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

GB/T 1604 Rules for Acceptance of Commercial Pesticides

GB/T 1605-2001 Sampling Methods for Commercial Pesticides

GB 3796 General Rules for Pesticide Packaging

GB/T 8170-2008 Rules for rounding off numerical values and the representation and determination of limiting values

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 toxin protein A parasporal crystal protein with insecticidal activity produced during spore formation.

3.2 Toxicity potency Biological indicators of the differences in the lethality or inhibitory ability of microorganisms against target harmful organisms.

4 Technical Requirements

4.1 Appearance Grayish-white to brownish-brown powder.

4.2 Technical Specifications The *Bacillus thuringiensis* technical material should meet the requirements in Table 1.