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

GB/T 17980.49-2026

Replacing GB/T 17980.49-2000

**Pesticides - Guidelines for field efficacy trials - Part 49:
Herbicides against weeds in sugarcane**

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Test conditions
- 5 Experimental Design and Arrangement
- 5.2 Reagents

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 49 of GB/T 17980, "Guidelines for Field Efficacy Testing of Pesticides". GB/T 17980 has published the following... part.

- 1. Insecticide control of lepidopteran borers in rice;
- 2. Insecticide Control of Rice Leaf Roller;
- 3. Pesticide Control of Rice Leafhoppers;
- 49. Herbicides for Weed Control in Sugarcane Fields;

---Part 149: Insecticides for the Control of Red Imported Fire Ants. This document supersedes GB/T 17980.49-2000 "Guidelines for Field Efficacy Testing of Pesticides (I) Herbicides for the Control of Weeds in Sugarcane Fields", and is consistent with... Compared with GB/T 17980.49-2000, apart from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The requirements for the scope of application have been changed (see Chapter 1, Chapter 1 of the 2000 edition);
- b) A new chapter on "Terms and Definitions" has been added (see Chapter 3);
- c) The requirements for selecting weeds for the test subjects have been changed (see 4.2, 2.2 of the 2000 edition);
- d) Added provisions for test treatment (see 5.1);
- e) The requirements for test and control reagents have been changed (see 5.2,

3.1 of the 2000 edition);

1 Scope

GB/T 17980.49-2026 is the Chinese national standard covering trials of herbicides in sugarcane - a crop that takes months to close its canopy, which is exactly the window in which weeds take the yield. The guideline fixes the trial design and the plots, the timing and rate of application, the assessment of weed density and biomass, and the cane yield and sugar content, the calculation of efficacy against the untreated control and the phytotoxicity to be recorded. It replaces GB/T 17980.49-2000, one of the parts of GB/T 17980 revised together in this batch. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 17980.49-2000. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document describes the method for field plot trials of herbicides for controlling weeds in sugarcane fields. This document applies to the efficacy and safety evaluation of herbicides used for registration in field plot trials for controlling weeds in newly planted and ratooned sugarcane fields.

2 Normative references

This document has no normative references.

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Test conditions

4.1 Selection of Crops and Cultivars Use locally common cultivation methods and select widely planted varieties. Record crop species (including Chinese and Latin scientific names) and cultivation types. Type and variety name.

4.2 Selection of weeds as test subjects The weeds in the experimental site should be representative, the weed density should meet the experimental requirements, and the weeds should be evenly distributed. The weed community composition should be consistent with the test site. The herbicidal spectrum of the pesticides is consistent. Record the Chinese and Latin scientific names of various weeds.

4.3 Cultivation conditions Soil conditions (soil type, organic matter content, pH, soil moisture, fertility) and tillage practices should be uniform and consistent across all

experimental plots, and should meet the requirements of the current regulations. Agricultural practices based on geosciences. Cultivation methods for sugarcane, such as planting types and row spacing, should conform to local production realities and be documented. Record the previous crop and the herbicides used in the previous crop, and avoid selecting plots that may affect the growth of the tested sugarcane or the effectiveness of the tested herbicides.

5 Experimental Design and Arrangement

5.1 Test Treatment Treatments such as experimental agents, control agents, manual weeding, and blank control should be set up.

5.2 Reagents

5.2.1 Test reagents The test reagent treatment includes four dosages. high, medium, low, and twice the medium dose. Additional dosages may be determined based on specific experimental requirements. Please specify the reagent in Chinese.