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

GB/T 17980.27-2026

Replacing GB/T 17980.27-2000

**Pesticides - Guidelines for field efficacy trials - Part 27:
Fungicides against leaf spot of vegetables**

农药 田间药效试验准则 第27部分：杀菌剂防治蔬菜叶斑病

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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 27 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; ...
- 27. Fungicides for the Control of Leaf Spot Disease in Vegetables; ...

---Part 149: Insecticides for the Control of Red Imported Fire Ants. This document supersedes GB/T 17980.27-2000 "Guidelines for Field Efficacy Tests of Pesticides (I) Control of Leaf Spot Disease in Vegetables with Fungicides", and is consistent with... Compared with GB/T 17980.27-2000, apart from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 2000 edition);

- b) The requirements for test conditions have been changed (see Chapter 4, Chapter 2 of the.2000 edition);
- c) Added requirements for experimental treatments and blank controls (see 5.1);
- d) The requirements for test and control reagents have been changed (see 5.2, 3.1 of the.2000 edition);
- e) Changes were made to cell arrangement, cell size, and duplication requirements (see 5.3, 3.2 of the.2000 edition);

1 Scope

GB/T 17980.27-2026 is the Chinese national standard covering the trial protocol for vegetable leaf spot fungicides - with the disease severity scales and the assessment intervals through an epidemic that can move faster than the spray programme. The GB/T 17980 series is what a pesticide registration in China rests on: it fixes the plot design and replication, the application rate and timing, the assessment of the pest or weed and of the crop, and the analysis of the result. It replaces GB/T 17980.27-2000 and has been in force since 1 September 2026, one of the parts of the series revised together. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 17980.27-2000. 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 fungicides for controlling leaf spot disease in vegetables. This document applies to the use of fungicides to control leaf spot diseases in vegetables, including celery leaf spot (*Cercosporaapii*) and carrot black spot (Alter-). Follow the instructions.

4 Test conditions

4.1 Selection of test subjects, crops and varieties The experimental subjects were leaf spot, black spot, brown spot, purple spot, ring spot, and ring blotch. The experimental crops included celery, carrots, peas, beets, scallions, cabbage, Chinese cabbage, radishes, and rapeseed. Disease-susceptible varieties or locally conventionally grown varieties were selected. Variety. Record the variety name.

4.2 Environmental Conditions Field trials should be conducted in disease-prone areas. Cultivation conditions (soil type, fertilization, sowing/planting date, growth stage) for all experimental plots should be considered. The spacing between sections and rows of crops should be uniform and consistent with local scientific agricultural practices. If irrigation is

used, record the method, time, and amount of water used. If fumigants, smoke agents, powders (spraying), or fogging agents are applied in greenhouses, each treatment should be performed in a single greenhouse or the greenhouse should be tightly isolated. Several residential communities.

5 Experimental Design and Arrangement

5.1 Test Treatment The following treatments should be set up. test reagent, control reagent, and blank control.

5.2 Reagents

5.2.1 Test reagents The test reagent should be applied at least three times; in special cases, the dosage should be set according to experimental requirements. Specify the Chinese/English common name or code of the reagent. Dosage form, active ingredient content, manufacturer, production date or batch number, expiration date, etc.

5.2.2 Control reagent The control agent should be a registered, locally used product with good efficacy and safety in actual use. The type and function of the control agent should be clearly defined. The method should be the same as or similar to that of the test drug, and the registered dosage should be used. If the test drug is a compound formulation, a single dose of each active ingredient should also be included as a control. Control drug. Special cases may vary depending on the purpose of the experiment. Record the Chinese/English common name, dosage form, active ingredient content, and manufacturer of the control drug. The product name, registration number, production date or batch number, and dosage are required.

5.3 Community Arrangement

5.3.1 Layout of the community The experimental, control, and blank control plots were randomly assigned using a block design, and the plot diagram was recorded. Special circumstances should be noted. illustrate.

5.3.2 Area of the community and duplication Area of the residential area. 15m²~50m² (for sheds, the area should be no less than 8m²). Number of repetitions. at least 4 repetitions.

6 Applying pesticides

6.1 Application Method Follow the test requirements and label instructions. Application methods should be adapted to local scientific agricultural practices. Record the application methods and procedures. process.

6.2 Application equipment Select commonly used equipment in production, or choose equipment according to experimental requirements. Record the type of equipment used and its operating conditions (e.g., working pressure, etc.). All information regarding nozzle type

and nozzle diameter.

6.3 Application time and frequency Conduct the experiment according to the test requirements and label instructions. Record the number of applications, the date of each application, and the crop growth stage. The first application should be made at the site of the disease. Before or at the initial stage of an outbreak, the decision to apply pesticide again depends on the development of the disease during crop growth.

6.4 Dosage Administer the medication according to the test requirements and the dosage specified on the label, and record the prepared dosage and the amount of active ingredient. The prepared dosage is usually expressed in mL/667m² (milliliters). The dosage is expressed as per 667 square meters (g/667m²) or g/667m² (grams per 667 square meters), while the effective ingredient dosage is expressed as g/hm² (grams per hectare). **Spray application.** When applying pesticides, record the amount of pesticide solution used per hectare, expressed in L/hm² (liters per hectare); for fumigants, smoke agents, powders (spraying), and fogging agents. At the same time, record the volume of the greenhouse and the cultivated area, and record the dosage of pesticide per square meter or per cubic meter, in g/m² (grams per square meter) or The dosage is expressed in g/m³ (grams per cubic meter). The pesticide application rate should be evenly distributed, and the deviation should not exceed $\pm 10\%$. If the deviation exceeds $\pm 10\%$, it should be recorded and... Assess its impact.

6.5 Chemical requirements for controlling other diseases, pests, and weeds If other agents are used, those that have no effect on the test agent and test subjects should be selected, and all plots should be treated uniformly. Use separately from test and control agents to minimize interference from these agents. Record the accurate number of doses administered. Information such as the generic name of the drug, dosage form, content of active ingredient, manufacturer, dosage, application method, application time, and target pests.

7.1 Drug Efficacy Survey

7.1.1 Survey Methodology Five sampling points were taken along the diagonal of each plot, with 2-3 plants surveyed at each point. All leaves were surveyed on each plant; for Chinese cabbage and kale, only the outer leaves were examined. The percentage of leaf area covered by lesions is used to classify the lesions. Disease investigation and classification are as follows: Grade

0.No lesions;

1.The area of lesions is less than 5% of the total leaf area;

3.The area of lesions accounts for more than or equal to 5% but less than 10% of the total leaf area;