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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 31270.5-2025

Replacing GB/T 31270.5-2014

Test guidelines on environmental safety assessment for chemical pesticides - Part 5: Leaching test in soil

化学农药环境安全评价试验准则 第5部分：土壤淋溶试验

Issued on: October 31, 2025 **Implemented on: May 1, 2026**

Issued by: State Administration for Market Regulation;
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 5 of GB/T 31270, "Test Guidelines for Environmental Safety Evaluation of Chemical Pesticides". GB/T 31270 has been published. The following section.

1.Soil Metabolism Test;

2.Hydrolysis Test;

3.Photolysis Test;

4.Soil Adsorption/Desorption Tests;

5.Soil Leaching Test;

6.Volatility Testing;

7.Bioaccumulation Assays;

8.Metabolic Experiments of Water-Sediment Systems;

9.Short-term feeding toxicity tests in birds;

10.Acute toxicity tests on bees;

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11.Acute Toxicity Tests on Silkworms;

12.Acute Toxicity Testing in Fish;

1 Scope

GB/T 31270.5-2025 is the Chinese national standard covering whether a pesticide washes down through soil towards groundwater - the column test and the soils chosen, the rainfall simulated, and the distribution of the compound and its metabolites down the profile and in the leachate. Part 5 of the series, with Part 4 on adsorption. It replaces GB/T 31270.5-2014, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 31270.5-2014.

This document describes the test methods for chemical pesticide leaching tests in soil. This document applies to soil leaching tests conducted for the registration of chemical pesticides. This document does not apply to highly volatile pesticides such as fumigants.

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 6682 Specifications and test methods for water used in analytical laboratories

GB/T 31270.1 Environmental Safety Assessment Test Guidelines for Chemical Pesticides - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 At the end of leaching, the distance of the deepest soil section where the amount of the test sample or aged residue is greater than or equal to 0.5% of the initial addition amount.

3.2 The distance from the bottom of the soil section to the top of the soil column where the cumulative recovery rate of the test substance reaches 50% of the total recovery rate in a conventional leaching test; or in the aging... In the residual leaching test, the distance from the bottom of the soil section to the top of the soil column where the cumulative recovery rate reached 50% of the total recovery rate, minus the aging residual soil layer, is taken as the distance.

4 Determination of Soil Bulk Density

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NY/T 1121.6 Soil Testing - Part

5 Soil Leaching Test Warning

---Personnel using this document should have practical experience working in a formal laboratory. This document does not address all possible safety issues. Users are responsible for taking appropriate safety and health measures and ensuring compliance with relevant national regulations.

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