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

GB/T 31790-2025

Replacing GB/T 31790-2015

**Detection and identification of main viroids for Solanaceae
crops**

茄科作物重要类病毒检测鉴定方法

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Foreword

This document is in accordance with the rules of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 31790-2015 "Potato spindle tuber viroid quarantine identification method" and is consistent with GB/T 31790-2015.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added "Taxonomic information of important viroids of Solanaceae crops" (see Chapter 4);
- b) Added "Method Principles" (see Chapter 5);
- c) "Reagents" has been changed (see 6.1, 3.3 of the 2015 edition);
- d) "Instruments and equipment" has been changed (see 6.2, 3.1 of the 2015 edition);
- e) "Utensils" has been changed (see 6.3, 3.2 of the 2015 edition);
- f) Added "Sample Preparation" (see Chapter 7);
- g) Changed "Result Determination" (see Chapter 9, Chapter 5 of the 2015 edition);
- h) "Reciprocating two-dimensional polyacrylamide gel electrophoresis (R-PAGE)" was deleted (see Appendix B of the 2015 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee on Plant Quarantine Standardization (SAC/TC271).

This document was drafted by: China Institute of Inspection and Quarantine, Shenyang Agricultural University, and Fuzhou Customs Technical Center.

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2015 as GB/T 31790-2015;
- This is the first revision.

Detection and identification methods of important viroids in Solanaceae crops

1 Scope

This document describes the important viroids of Solanaceae crops (potato spindle tuber viroid, snapdragon latent viroid, pepper fruitlet viroid, RT-PCR and real-time fluorescence RT-PCR detection methods for tomato chlorotic stunt viroid).

This document applies to important viroids in Solanaceae crop materials and seeds (potato spindle tuber viroids, snapdragon latent viroids, pepper Molecular biological detection of pepper fruitlet viroids and tomato chlorotic stunt viroids).

2 Normative references

GB/T 6682

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4.1 Chinese name. Potato spindle tuber viroid

Abbreviation. PSTVd Taxonomic status. Pospiviroidae, Pospiviroid Additional information on potato spindle tuber viroid is given in Appendix A.

4.2 Chinese name. Antirrhinum latent virus

English Name. Columneal latent viroid Abbreviation. CLVd Taxonomic status. Pospiviroidae, Pospiviroid Additional information on snapdragon latent viroids is provided in Appendix B.

4.3 Chinese name. Pepper fruitlet virus

Abbreviation. PCFVd Taxonomic status. Pospiviroidae, Pospiviroid Additional information on

pepper fruitlet viroids is provided in Appendix C.

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