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

GB/T 28090-2025

Replacing GB/T 28090-2011

**Detection and identification of *Euphrosyne xanthiifolia* (Nutt.)
A. Gray**

假苍耳检疫鉴定方法

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Foreword

This document is in accordance with the provisions 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 28090-2011 "Identification Method for Quarantine of *Xanthium sibiricum*". Compared with GB/T 28090-2011, in addition to the structural adjustment In addition to editorial changes, the main technical changes are as follows.

- Changed "Scope" (see Chapter 1, Chapter 1 of the 2011 edition);
- The term "capitate" has been deleted, the definitions of the terms "involucre" and "achene" have been changed, and the terms "involucre" and "involucre" have been added (see Chapter 3, Chapter 2 of the 2011 edition);
- Changed the "Classification information of *Xanthium sibiricum*" (see Chapter 4, Chapter 3 of the 2011 edition);
- Changed "Apparatus and Reagents" (see Chapter 6, Chapter 5 of the 2011 edition);
- Deleted "Laboratory Testing and Identification" (see Chapter 6 of the 2011 edition);
- Added "Field Sampling" and "Observation Methods and Sample Preparation" (see Chapters 7 and 8);
- Changed "Identification Method" (see Chapter 9, 6.3 of the 2011 edition);

- Changed "Result Determination" (see Chapter 10, Chapter 8 of the 2011 edition);
- Changed "Sample Storage and Handling" (see Chapter 11, Chapter 9 of the 2011 edition);
- Added morphological characteristics of Pseudocalli and similar genera (see Appendix B);
- The morphological characteristics of Xanthium sibiricum have been changed (see Appendix C, Appendix B and Appendix C of the 2011 edition);
- Added ITS sequence amplification and sequencing information and real-time fluorescence PCR detection of Pseudo-Xanthium sibiricum (see Appendix D and Appendix E).

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 under the jurisdiction of the National Technical Committee on Plant Quarantine Standardization (SAC/TC271).

This document was drafted by: China Institute of Inspection and Quarantine, Ningxia Hui Autonomous Region Agricultural Technology Extension Center, China Customs Science and Technology Technical Research Center, Erlian Customs Technical Center, and Alashankou Customs Technical Center.

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

- First published in 2011 as GB/T 28090-2011;
- This is the first revision.

Quarantine and identification method of Pseudo-Xanthium sibiricum

1 Scope

method.

This document is applicable to the quarantine and identification of Pseudo-Xanthium sibiricum.

2 Normative references

This document has no normative references.

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1 Bract phylary

Bracts arising from the outermost or lower part of the inflorescence.

3.1.2 Involucre

It is composed of multiple bracts, forming one or more whorls of structures that wrap around the inflorescence.

3.1.3 Palea

The scale-like bracts on the inflorescence receptacle of the Asteraceae family. Note. The plural is paleae.

3.1.4 Achene

A small, dry fruit with a hard, indehiscent skin containing one seed.

Note. The apex is usually covered with pappus or other appendages and the base is usually connected to the fruiting pedicel.

3.2 Abbreviations

The following abbreviations apply to this document. Ct. cycle threshold ITS. internal transcribed spacer 1 and internal transcribed spacer 2 of ribosomal DNA, and 5.8S ribosomal gene (internaltranscribed