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

GB/T 44610-2024

Diagnostic protocol for diseases in edible mushrooms

食用菌病害检疫鉴定方法

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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 is required.

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 was proposed and coordinated by the National Technical Committee on Plant Quarantine Standardization (SAC/TC 271).

This document was drafted by: China Institute of Inspection and Quarantine.

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Methods for quarantine and identification of edible fungi diseases

1 Scope

This document describes methods for quarantine identification of diseases of edible mushrooms.

This document is applicable to the detection and identification of fungal diseases, bacterial diseases and viral diseases in the fruiting bodies of various edible mushrooms produced and imported domestically.

2 Normative references

GB/T 6682

GB/T 12728

GB 19489

GB/T 27402

GB/T 27403

3 Terms and definitions

The terms and definitions defined in GB/T 12728 apply to this document.

4 Abbreviations

The following abbreviations apply to this document. Ct. Cycle Threshold CTAB. Cetyl Trimethyl Ammonium Bromide DNA. Deoxyribonucleic Acid OD. Optical Density PCR. Polymerase Chain Reaction PDA. Potato Dextrose Agar RNA. Ribonucleic Acid RT?PCR:Reverse Transcription?Polymerase Chain Reaction

5 General requirements

Depending on the type of disease, it is generally classified according to morphological characteristics, molecular biological characteristics, pathogenicity characteristics, physiological and biochemical characteristics, etc.

For species identification, multiple detection methods should be used to comprehensively determine the results.

Safe and effective protective measures should be adopted throughout the test operation process, and the specific requirements should comply with GB 19489, GB/T 27402, The provisions of GB/T 27403.