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SN

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

SN/T 3757-2013

**Detection and identification of *Tilletia vankyi* Carris and
Castlebury
(English Translation)**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Tianjin People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the method for inspection and identification of red fescue *Tilletia* bacteria.

This standard applies to red fescue, ryegrass seeds on quarantine and identification of red fescue bunt fungus.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 18085-2000 phytosanitary wheat dwarf bunt quarantine and identification of bacteria.

3 Basic information of germs

Chinese name. red fescue fungus *Tilletia* Name. *Tilletia* vankyi Carris Taxonomic position. red fescue fishy Ustilago Fungi (Fungi), Basidiomycota (Basidiomycota), ustilaginomycotina

(Ustilagino-mycotina), Ustilago Gang (Ustilaginomycetes), fishy Ustilago mesh (Tilletiales), fishy ustilaginaceae (Tilletiaceae), Tilletia Genus (Tilletia).

Transmission. pathogens in red fescue and ryegrass crops Flowering Stage infection hilum, the ventral hilum was a black spot or along the ventral groove shape A blister spot, full of whole grain bacteria teliospore serious damage, mainly through the seed for long-distance transmission.

For additional information Festuca rubra Tilletia fungus in Appendix A.

4 Principle of the method

Host gall and form of the bacteria, teliospore morphology, PCR reaction characteristics as the basis for identification.

5.1 Instrument

Stereo microscope, optical microscope (with photomicrography device and micrometer), balance (sense of volume 0.1g), biological safety cabinets or clean benches, low Speed centrifuge, reciprocating oscillator, a vortex, autoclaves, PCR instrument, adjustable micro pipette, graduated centrifuge tube (10mL or 20 mL) and the like.

5.2 Appliances

Beaker, flask, forceps, slides, cover slips, measuring alcohol lamp, straw, Parafilm film or aluminum foil, centrifuge tubes (1.5mL), pick Species needle, PCR tubes.