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

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**Effects of pollutants on mycorrhizal fungi -- Spore germination
test**

污染物对菌根真菌的影响 孢子萌发试验

(English Translation)

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Foreword

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

This standard uses the translation method equivalent to the international standard ISO 10832.:2009 "Soil quality contaminants on mycorrhizal fungi Sub-germination test".

For ease of use, this standard has been modified as follows.

--- Change the standard name to "Spore germination test on the effect of contaminants on mycorrhizal fungi".

This standard is proposed by the Ministry of Agriculture.

This standard is under the responsibility of the National Soil Quality Standardization Technical Committee (SAC/TC404).

The drafting of this standard. Nanjing Institute of Soil Science, Chinese Academy of Sciences, Jiangsu Provincial Institute of Standardization.

1 Scope

This standard specifies a method for assessing the effects of contaminants on the spore germination of Arbuscular mycorrhizal fungi (*Glomus mosseae*) law. The acute biotoxicity test method can assess the potential for contaminants and soil pollution to contribute to beneficial microorganisms in plants in sustainable agriculture influences.

This standard applies to.

---Chemicals;

--- Contaminated soil, waste and soil - waste mixture.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

ISO 10381-6 soil quality sampling - Part 6. laboratory determination of microbial processes, biomass and diversity of soil aerobic Guidelines for harvesting, handling and storage (Soilquality-Sampling-Part 6. Guidanceontheollection, handling and storageofsoilunderaerobicconditionsforthemicrobiologicalassessment, biomassanddiversityin thelaboratory ISO 10390 Soil quality pH determination (Soilquality-Determination ofpH) ISO 11263 soil quality phosphorus determination spectrophotometric determination of sodium bicarbonate solution in the soluble phosphorus (Soilquality-Determina-tionofphosphorus-Spectrometricdetermination ofphosphorussolubleinsodiumhydrogencarbonate solution ISO 11268-1 Effects of soil quality pollutants on earthworms - Part 1. Acute toxicity of Eisai Eisen (Soilquality-Effectsofpolutantsonearthworms-Part 1. Determination ofacutetoxicityto Eiseniafetida/Eiseniaandrei) ISO 11274 Soil quality water retention characteristics of the laboratory method (Soilquality-Determinationofthewater-retentioncharacteristic-Laboratorymethods) ISO 11465 soil quality basis dry matter and water content determination of gravity measurement (Soilquality-Determination ofdrymatterandwatercontentonamassbasis-Gravimetricmethod)

3 Terms and definitions

The following terms and definitions apply to this document.

Mycorrhizal fungi mycorrhizalfungus A variety of microbes that are widely present and have a symbiotic relationship with vascular roots.

European Mycorrhizal Fungi Preservation Center International arbuscular mycorrhizal fungi.