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NY

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

NY/T 798-2015

Compound microbial fertilizers

复合微生物肥料

(English Translation)

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Foreword

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

This standard replaces NY/T 798-2004 "Compound microbial fertilizers".

Compared with NY/T 798-2004, except for editorial changes, the main technical changes are as follows.

- MODIFY the requirements for quality score of total nutrients;
- MODIFY the requirements for pH range;
- MODIFY the requirements for limit index of arsenic (As), cadmium (Cd), lead (Pb), chromium (Cr), mercury (Hg), in products;
- MODIFY the judgment rules;
- ADD the requirements for the limit value of each single nutrient, in the total nutrient;
- ADD the technical index requirements for organic matter;
- DELETE the technical index requirements for fineness;
- STANDARDIZE the references such as product testing methods.

This standard was proposed by AND shall be under the jurisdiction of the Plantation Management Department of the Ministry of Agriculture.

Drafting organizations of this standard. Microbial Fertilizer and Edible Fungus

Quality Supervision and Inspection Center of Ministry of Agriculture, Microbial Product Quality and Safety Risk Assessment Laboratory (Beijing) of Ministry of Agriculture, Institute of Agricultural Resources and Agricultural Regional Planning of Chinese Academy of Agricultural Sciences.

1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, markings, packaging, transportation, storage of compound microbial fertilizers.

This standard applies to compound microbial fertilizers.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 19524.1 Determination of fecal coliforms in fertilizers

GB/T 19524.2 Determination of mortality of ascarid egg in fertilizers

3 Terms and definitions

The terms and definitions as defined in NY/T 1113, as well as the following terms and definitions, apply to this document.

3.1

Compound microbial fertilizers

The live microbial products that are compounded by specific microorganisms and nutrients; can provide, maintain or improve plant nutrition; increase the yield of agricultural products OR improve the quality of agricultural products.

4.1 Bacterial species

The microbial species used shall be safe and effective. The producer shall provide a classification and identification report of the bacterial species, including complete information such as the scientific name of the genus and species, morphology, physiological and biochemical characteristics,

4.2 Appearance (sensory)

Homogeneous liquid or solid. Suspended liquid products shall not have a large amount of precipitation; the precipitation shall be evenly dispersed after gentle shaking. Powder products shall be loose. Granular products shall be free of obvious mechanical impurities AND uniform in size.

4.3 Technical index

The technical index of the compound microbial fertilizer shall meet the requirements of Table 1. Product dosage forms are divided into liquid and solid. The solid dosage forms include powder and granular forms.

5.1 General requirements

The preparation of reagents, water and solutions, which are used in this standard, shall be carried out in accordance with HG/T 2843, unless otherwise the specification and preparation method are indicated.

The digital rounding of product technical indicators and the qualification of product quality, in this standard, shall comply with the provisions of GB/T 8170.

5.6 Determination of organic matters

It is performed according to the requirements of NY 525.

5.7 Determination of the count of fecal coliform bacteria

It is performed according to the requirements of GB/T 19524.1. For the retrieval table for the determination process and the most probable number (MPN) of fecal coliform count, please refer to Appendix D of NY/T 2321.

5.8 Determination of the death rate of ascarid eggs

It is performed according to the requirements of GB/T 19524.2.

5.9 Determination of Arsenic (As), cadmium (Cd), lead (Pb), chromium (Cr) mercury (Hg)

It is performed according to the requirements of NY/T 1978.

6.1.1 Exit-factory inspection

When the product is exit-factory, it shall be inspected by the quality inspection department of the manufacturer, according to Table 1. The expiration date is not inspected, during the exit-factory inspection.

6.2.1 General

Treat the products, which are processed from each fermenter's bacteria liquid (or each batch of solid fermentation), as a batch, to carry out the sampling inspection, during which it shall strictly avoid contamination from miscellaneous bacteria.

6.2.2 Sampling tools

Sterile plastic bags (bottles), metal spoons, samplers, measuring cylinders, kraft paper bags, glue, sampling seals, sampling sheets, etc.

6.3 Judgment rules

Products, that meet the requirements of technical index and harmlessness index, are qualified products.

7.1 Packaging

Choose appropriate packaging materials, containers, forms, methods, according to different product dosage forms, to meet the basic requirements of product packaging. The product packaging shall contain the product qualification and instructions for use. In the instruction for use, it shall indicate the scope of use, methods, dosage, precautions.