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

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**Technical specification for the cultivation of Dendrobium
devonianum**

齿瓣石斛培育技术规程

(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 was proposed by the Chinese Academy of Forestry.

This standard is under the jurisdiction of the National Afforestation Standardization Technical Committee (SAC/TC385).

This standard was drafted. Institute of Resource Insects, Chinese Academy of Forestry, Shiyuan Institute, Longling County, Yunnan Province, Southwest Forestry University, Forestry Science Research Institute of Pu'er City, Yunnan Province, Honghe Prefecture Forestry Science Research Institute, Yunnan Province.

Introduction

Dendrobium devonianum, also known as the scented grass, rhubarb, is the Orchidaceae (Orchidaceae) *Dendrobium* (*Den-Drobium*) is an important forest medicinal plant resource in the low latitude tropical and subtropical regions of China, and is the weight of the traditional Chinese medicine *Dendrobium*. One of the raw material plants, the research proves that its components such as *Dendrobium* polysaccharide, *Dendrobium*, amino acid and mineral elements are close to *Dendrobium candidum*. due to in recent years, disorderly mining, China's natural resources of *Dendrobium candidum* is in an endangered state. The cultivation method of *Dendrobium candidum* is mainly based on tissue culture.

Plugging and breeding seedlings are also used; their cultivation is currently based on facility cultivation and imitation of wild cultivation. There is no uniform cultivation and cultivation of *Dendrobium nobile* in China.

The technical standards, the quality of seedlings and stems are different, which seriously affects the production effect and industrial development of the current *Dendrobium*. Therefore, it should be standardized as soon as possible the cultivation technology of

Dendrobium candidum meets the needs of medicinal Dendrobium production under current conditions, and provides technology for the development of Dendrobium candidum industry. standard.

Technical regulations for the cultivation of Dendrobium

1 Scope

This standard specifies the seedling cultivation,, tending management, harvesting and post-harvest handling of the Dendrobium nobile, and the establishment and management of production files.

Technical requirements.

This standard is applicable to the seedling cultivation and cultivation of Dendrobium nobile.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 4285 Standard for safe use of pesticides GB 5084 Farmland Irrigation Water Quality Standard GB 6000 Main afforestation tree seedling quality grading GB 6001 nursery technical regulations GB/T 8321 rational use guidelines for pesticides GB/T 2828.1 Counting and sampling inspection procedures - Part 1. Batch-to-batch sampling plan, search by the acceptance quality limit (AQL)

3.1.1 Explant preparation

It is advisable to use the sterile shoots of the explants cultured in the tissue culture seedlings, or the young lateral shoots of the wild plants.

3.1.1.1 Aseptic seedling shoots

Sterile sowing shoots include.

a) Capsule collection. Harvest the fruit from 7 months to 9 months after flowering. After harvesting, the capsules are placed in a refrigerator at 4 °C for storage.

b) Seed treatment. first soak for 10min with detergent solution, rinse off and rinse with running tap water to place the capsule Soak in 75% ethanol solution for 10s~15s, sterilize in 2% NaClO solution for 10min~15min, and finally use sterile Rinse the water 3 times to 5 times, sterilize the filter paper and dry it in a sterile kraft paper or Petri dish, and cut it on a

sterile workbench.

The result.

c) Culture process. Prepare the culture medium according to the formula of Appendix A medium, and remove the seeds of *Dendrobium candidum* and spread them evenly on the culture table.

The surface is aseptically cultured after sowing. The culture temperature was 23 ° C ~ 25 ° C, the light intensity was 2000 lx, and the illumination time was 10 h/d.

3.1.1.2 Young plants with young lateral buds

Take the young lateral buds that have not been unfolded in the leaves of the wild plants. Wash the surface with detergent solution first, then rinse with tap water and peel off the most.

1 piece to 2 leaves, revealing buds, then immersed in 2% NaClO solution for 10min~15min, rinsed 3 times~5 times with sterile water.