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**INDUSTRY STANDARD OF THE
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**Main tropical orchid plant cultivation techniques and quality
grade**

主要商品热带兰花种苗栽培技术与质量等级
(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 and managed by the National Flower Standardization Technical Committee.

This standard was drafted. Institute of Forestry, Chinese Academy of Forestry, Institute of Subtropical Forestry, Chinese Academy of Forestry, Hainan Baiying Orchid Industry Development Co., Ltd., Crop Research Institute of Fujian Academy of Agricultural Sciences, Canaan Orchid Farmers Professional Cooperative in Dongfang City.

1 Scope

This standard specifies *Phalaenopsis*, *Cattleya*, *Oncidium*, *Dendrobium* Terms and definitions of tropical orchid seeds and seedlings, cultivation management methods, quality requirements, inspection methods, signs, packaging, storage and transportation, etc.

Content.

This standard applies to the cultivation management and quality assessment of tropical orchid seedlings such as *Phalaenopsis*, *Cattleya*, *Oncidium*, and *Dendrobium*.

2.1 Spring *Dendrobium nobile* type *Dendrobium*

The species of *Dendrobium* extracted from the leaf axillary inflorescence. The original parents are mainly from the Section *Dendrobium* group. Natural Flowering is generally in spring.

2.2 Autumn *Dendrobium phalaenopsis* type *Dendrobium*

Species of *Dendrobium* orchids extracted from the top of the plant. The original parents are mainly from Section *Phalaenanthus* and Antelope *Dendrobium* group (Section *Spatulata*) and the hybrid of these two groups, the natural flowering period is generally in autumn.

2.3 Plant height

The vertical distance from the root and neck of the plant to the top.

2.4 Leaf length

Refers to the linear distance from the base of the longest leaf to the tip of the plant.

2.5 Leaf width

Refers to the maximum width of the longest leaves on the plant.

2.6 Pseudobulb

Refers to the abnormal stem of Orchidaceae.

2.7 Stem diameter

The diameter of the thickest part of the largest pseudobulb of *Cattleya* and *Oncidium*. When the pseudobulb of *Oncidium* is covered with a leaf sheath, the measurement is performed together with the leaf sheath.

The thickest diameter of *Dendrobium* pseudobulb.

2.8 Mericlone young plant

Healthy tropical orchid plants obtained through tissue culture can be removed from the culture bottle and planted in the cultivation facility.

2.9 Primary young plant

After the bottle seedlings are planted in a transparent nutrition bowl of f4.0cm to f5.5cm, the seedlings during the next pot change. *Phalaenopsis* and *Dendrobium* the seedling stage of *Cymbidium* is 4-6 months, the seedling stage of *Oncidium* is 6-9 months, and the seedling stage of *Cattleya* is 12-18 months.

2.10 Medium young plant

Phalaenopsis seedlings grow after 3.5 to 4 months, *Dendrobium* seedlings grow after 4 to 6 months, and *Oncidium* seedlings grow after 6 to 9 months.

After 12 to 18 months of growth of *Cattleya* seedlings, they were planted in transparent nutrition bowls of f6.5 cm to 8.5 cm in changing pots, and the seedlings during the next pot changing period.

2.11 Large plant

After 2.5 to 3.5 months of growth of *Phalaenopsis* middle seedlings, after 4 to 6 months of growth of *Dendrobium* middle seedlings, of *Oncidium* medium seedlings after 6 to 9 months, After growing for 12 to 24 months, the *Cattleya* medium seedlings were planted in

transparent nutrition bowls of f10.0 cm to f12.5 cm, which had flowering ability.

2.12 Small plant type

Types of Phalaenopsis large seedlings with leaf lengths less than 15.0 cm, Types of Cattleya and Spring Dendrobium large seedlings with plant heights less than 30.0 cm, Oncidium, Autumn Dendrobium seedlings are less than 25.0 cm in height.

2.13 Medium plant type

Types of Phalaenopsis large seedlings with leaf lengths between 15.0 cm and 19.0 cm, and Cattleya large seedlings with plant heights between 30.0 cm and 40.0 cm.

Oncidium large seedlings with a plant height between 25.0 cm and 40.0 cm, autumn Dendrobium large seedlings with a plant height between 25.0 cm and 50.0 cm, spring the type of Dendrobium seedlings with plant height between 30.0 cm and 40.0 cm.

2.14 Large plant type

Phalaenopsis seedlings with leaf length greater than 19.0 cm, Cattleya seedlings with plant height greater than 40.0 cm, and Dendrobium seedlings with plant height greater than 50.0 cm type, oncidium and spring Dendrobium seedlings with a plant height greater than 40.0 cm.

3 Production environmental conditions

It has good light transmission, temperature and humidity controllability, air circulation, and insect-proof facilities; the light intensity is controlled at 8000 ~ 30,000 lux (144 ~ 540 $\mu\text{mol} \cdot \text{m}^{-2}\text{s}^{-1}$); the temperature is controlled between 18 ° C and 32 ° C; the relative humidity of the air is controlled between 60% and 90%.

4.1 Facility inspection and disinfection

Check the cultivation facilities and equipment to ensure that the equipment runs normally. Perform disinfection.

4.2.1 Water Moss

High-quality water moss with plant body length, stoutness, no impurities, and whitish color is selected. Soak and soften with water before use, then hot water at 85 °C Soak (or steam sterilize) for 30 minutes, and then dry after cooling, so as not to drip water when squeezing the moss.