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

GB/T 28683-2025

Replacing GB/T 28683-2012

Phalaenopsis

蝴蝶兰

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 28683-2012 "Technical Specifications for Phalaenopsis Cultivation" and GB/T 28684-2012 "Quality Standards for Phalaenopsis Seedlings".

Compared with GB/T 28683-2012 and GB/T 28684-2012, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed the terms and definitions of leaf length, leaf width, leaf distance, stem thickness, small seedling, medium seedling, large seedling, small plant type, medium plant type, and large plant type (see 3.1~3.10, 2.1~2.10 of GB/T 28684-2012);
- Added the terms and definitions of mini flower type, small flower type, medium flower type, large flower type and guide root (see 3.11 to 3.15);
- Deleted the terms and definitions of seedlings and split seedlings (see 2.11 and 2.12 of GB/T 28684-2012);
- Added production procedures (see Chapter 4);

- Changed facilities and equipment (see 5.1, Chapter 3 of GB/T 28683-2012);
- Changed the preparation before planting (see 5.2~5.4, 4.1 of GB/T 28683-2012);
- Added fertilizer selection and facility disinfection (see 5.5, 5.6);
- Changed the management steps for the seedling stage, medium seedling stage, large seedling stage, stem-pulling stage, peduncle-pulling stage, bud stage, and flowering stage (See 6.1 to 6.3, 7.1 to 7.3, and 4.2 to 4.7 of GB/T 28683-2012);
- Added salt content testing for substrates of small, medium and large seedlings (see 6.1.7, 6.2.6 and 6.3.6);
- Changed the pest and disease control for small seedlings, medium seedlings and large seedlings (see 6.1.8, 6.2.7, 6.3.7, Chapter 5 of GB/T 28683-2012);
- Increased the distance between the two leaves of the bottle seedlings (see 8.1.2.1);
- Deleted the seedling specifications and grades (see 3.2.2.1 of GB/T 28684-2012);
- Added the upper limit of mutation rate at different seedling stages (see 8.1.2.1 to 8.1.2.4);
- Added flowering plant quality grade (see 8.1.2.5);
- Changed the storage and transportation requirements (see 9.3, Chapter 7 of GB/T 28683-2012, and 6.3 of GB/T 28684-2012);
- Added file management (see Chapter 10).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the State Forestry and Grassland Administration.

This document is under the jurisdiction of the National Technical Committee on Standardization of Flowers (SAC/TC282).

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The previous versions of this document and the documents it replaces are as follows.

- GB/T 28683, first issued in 2012;
- GB/T 28684, first issued in 2012;
- This is the first revision. Phalaenopsis

1 Scope

It defines the quality inspection level, marking, packaging, storage and transportation, and describes the traceability method of file management.

This document applies to the cultivation management and quality assessment of Phalaenopsis seedlings using sphagnum moss as the substrate.

2 Normative references

GB/T 2828.1

GB/T 6543

GB/T 8321.10

GB 12475

NY/T 496

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 leaf length

Count the straight-line distance from the leaf scar of the second mature leaf to the leaf tip from top to bottom.

3.2 leaf width

The maximum width of the second mature leaf from the top when naturally expanded.

3.3

The straight-line distance between the two leaf tips of the second and third mature leaves when they are naturally open, counting from top to bottom.

3.4 stem diameter

The diameter of the stem including the leaf sheath.

3.5 small plantlet

The tissue culture seedlings are planted in transparent nutrient pots with a diameter of 5.0 cm or 5.5 cm (1.5 inches or 1.7 inches). After 4 to 6 months, Cultivate and grow strong seedlings.

3.6 medium plantlet

The seedlings are repotted and planted in transparent nutrient pots with a diameter of 8.0 cm or 9.0 cm (2.5 inches or 2.8 inches). After 4 to 6 months of cultivation,