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

**GB/T 46955-2026**

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**Specification for environmental control in protected cultivation  
of flowers**

设施花卉生产环境控制规范

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## Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting is scheduled.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the National Forestry and Grassland Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Flowers (SAC/TC 282). This document was drafted by: China Agricultural University, Yunnan Provincial Flower Technology Training and Extension Center, Shanghai Academy of Agricultural Sciences, and Yunnan Provincial Department of Agriculture. Institute of Floriculture, Chinese Academy of Sciences; Zhongkai University of Agriculture and Engineering; Shenyang Agricultural University; Institute of Environmental Horticulture, Guangdong Academy of Agricultural Sciences; China Tropical Horticulture Research Institute Institute of Tropical Crop Germplasm Resources, Chinese Academy of Agricultural Sciences; Zhejiang Provincial Institute of Landscape Plants and Flowers; Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences Shenzhen Polytechnic, Beijing Flower and Tree Co., Ltd., Yunnan Yuntianhua Flower Shop Technology Co., Ltd., Shandong Hongmei Horticulture Technology Co., Ltd. Company. Qingzhou Yatai Agricultural

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## 1 Scope

GB/T 46955-2026 is the Chinese national standard covering controlling a greenhouse for cut flowers and pot plants - the temperature and humidity by crop and stage, the light and the day length that decide when a plant flowers, the CO<sub>2</sub> enrichment, the irrigation and the sensors and control that hold it all. First edition, the companion of GB/T 46954-2026 on propagation. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the National Forestry and Grassland Administration. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the control requirements for the seedling and cut flower/potted flower cultivation environment in facility-grown flower production, and describes the corresponding verification methods. This document applies to cut flowers such as roses, chrysanthemums, lilies, carnations, gerberas, and anthuriums, as well as peonies, cyclamen, orchids, anthuriums, and alpine flowers. Facility-based seedling cultivation and planting of potted flowers such as azaleas and primroses.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 51057 Technical Specification for Plastic Greenhouse Construction

NY/T 2970 Construction Standard for Multi-span Greenhouses

NY/T 3024 Standard for the Construction of Solar Greenhouses

## 3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Hardening stage of tissue culture plants Tissue culture seedlings are gradually adapted to the transplanting facility environment through sterile, temperature- and humidity-controlled processes, including adjustments to light, temperature, and humidity, thus transitioning from heterotrophic culture. The period of transition to self-sufficiency.

3.2 The recovery stage of tissue culture plants The period after tissue culture seedlings are transplanted and adapt to the facility environment and resume growth.

3.3 Hardening stage of young plants before transplanting Before transplanting, seedlings cultivated in facilities undergo measures such as water control, ventilation, and cooling to enhance their resistance and adapt them to the target planting environment. period.

3.4 Transplanting stage of young plant cultivation The period from when cut flowers or potted plant seedlings are transplanted into cultivation facilities until they adapt to the environment and grow new roots.

3.5 Growing stage of cut flower plants The period from vegetative growth to the start of flowering in plants used for cut flowers.

3.6 Flowering stage of cut flower plants The period from the first harvest of cut flower plants to the end of the season.