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

GB/T 46671-2025

Technical specification for producing plant extracts

植物提取物生产工艺技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. 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 and is under the jurisdiction of the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document was drafted by: China National Institute of Standardization, Institute of Process Engineering, Chinese Academy of Sciences, and Shenzhen Eray Bio-Tech Co., Ltd. The company, By-Health Co., Ltd., Chenguang Biotech Group Co., Ltd., Zhejiang Tiancao Biotechnology Co., Ltd., Yunnan Yunke Specialty Plant Extract Laboratory Co., Ltd., Infinitus (China) Co., Ltd., Perfect (Guangdong) Daily Necessities Co., Ltd., Yunnan Boruisheng Biotechnology Co., Ltd., Nanjing Zhongke Pharmaceutical Co., Ltd., Institute of Agricultural Products Processing, Chinese Academy of Agricultural Sciences, Beijing Academy of Agricultural and Forestry Sciences, Zhejiang University, China Chamber of Commerce for Import & Export of Medicines & Health Products. The main drafters of this document are. Lan Tao, Xi Xingjun, Chen Yan, Yun Zhenyu, Zhang Guifeng, Zhao Xi, Lian Yunhe, Yan Weidong, Wang Fengzhong, and Fan Bei. Yu Zhibin, Wu Jianlin, Ma Xiao, Li Xiaomin, Sun Hongmei, Li Yunlong, Feng Peng, Yu Congcong, Meng Lingling, Li Hui, Wang Feifei, Mao Xinliang, Wang Bingzhi Jiao Liwei, Zhang Zongjun, Liu Weide, Zhang Zaiqi, Zhou Yajie. Plant Extract Production Process Technical Specifications

1 Scope

GB/T 46671-2025 is the Chinese national standard covering making a botanical extract - the raw material and its identity, the solvent and the extraction conditions, the concentration and drying, the residual solvent limits, and the standardisation to a marker compound. First edition, under the Ministry of Agriculture and Rural Affairs. In force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document establishes the technological process for the production of plant extracts, specifies the technological requirements for the production of plant extracts, and describes the corresponding certifications. Practical methods. This document applies to polyphenols produced from plant-based raw materials through processes such as pretreatment, extraction, refining or unrefining, shaping, and finished product processing. Production of plant extracts, including flavonoids, terpenes, polysaccharides, polypeptides, alkaloids, volatile oils, sterols, and glycosides.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. 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 5009.2 National Food Safety Standard - Determination of Relative Density of Food

GB 5749 Standard for Drinking Water Quality

GB/T 43808 Terminology for Plant Extracts GBZ

3 Terms and Definitions

The terms and definitions defined in GB/T 43808 and the following terms and definitions apply to this document.

3.1 Press A method of extracting target components from plant tissues using mechanical pressure.

4 Facilities, environment, and hygiene requirements

4.1 The plant area design shall comply with the provisions of GBZ 1 and related standards.

4.2 The factory area should be rationally laid out, with clear division of functional areas and appropriate separation or partitioning measures to prevent cross-contamination.

4.3 Extraction, refining, and molding processes should preferably be carried out using a closed system to facilitate pipeline cleaning and prevent cross-contamination.

4.4 Production plants, workshops, production equipment, personnel, production processes, inspection procedures, etc., shall comply with national regulations based on the classification and scope of use of the final products. Relevant requirements.

4.5 Throughout the processing, preventive measures should be taken to prevent contamination by microorganisms, chemicals, and foreign matter.

5. Production Process Flow The production process of plant extracts is shown in Figure

1. The appropriate process is selected for each extract based on its material characteristics.

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