

ICS 65.120
CCS B46



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

GB/T 45033-2024

Determination of *Candida utilis* in microbial feed additives

饲用微生物制剂中产朊假丝酵母的测定

Issued on: November 28, 2024

Implemented on: June 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope ...	1
2 Normative references ...	1
3 Terms and Definitions ...	1
4 Reagents or Materials ...	1
5 Instruments and equipment ...	1
6 Sampling ...	1
7 Test steps ...	2
6 Appendix C (Normative) Molecular Biological Identification ...	9

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 is required. 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 and coordinated by the National Feed Industry Standardization Technical Committee (SAC/TC 76). This document was drafted by: Shandong Baolaililai Bioengineering Co., Ltd., Angel Yeast Co., Ltd., Beijing Dabeinong Science and Technology Group Co., Ltd., Zhejiang Kefeng Biotechnology Co., Ltd., Tangshan Top Biotechnology Co., Ltd., Yihai Kerry (Fangchenggang) Biotechnology Co., Ltd. OBJECT TECHNOLOGY CO., LTD. The main drafters of this document are. Gu Wei, Shan Baolong, Xu Haiyan, Xie Quanxi, Xin Guoqin, Wang Xiangyan, Qi Xiuye, Tan Xianwu, Liu Xuelian, Zhang Tingzhou, Zhou Xueling, and Ma Lizhou. Determination of *Candida utilis* in feed microbial preparations

1 Scope

GB/T 45033-2024 gives the Chinese method for determining *Candida utilis* in microbial feed additives. Live yeast preparations are sold on a declared viable count, and the declaration is the product: the buyer cannot see it, the count falls during storage and transport, and a method that does not distinguish the declared organism from the other yeasts and bacteria present cannot support the claim. The standard sets the reagents and materials, the instruments and equipment, the sampling, and then the test procedure: the preparation and dilution of the sample, the selective media and the culture conditions under which *Candida utilis* grows and competitors are suppressed, the incubation, the counting of

the colonies and their confirmation by morphological and biochemical characteristics or by molecular identification where required, and then the calculation, the expression of the result, the precision and the test report. It takes effect on 1 June 2025.

This document describes a method for the determination of the count of *Candida utilis* in microbial preparations for feed. This document applies to the determination of feed microbial preparations containing *Candida utilis*.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 42959 Sampling for feed microbiological testing

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Reagents or materials

Unless otherwise specified, only analytical grade reagents were used.

4.1 Water. GB/T 6682, grade 3. 4.2 0.85% sterile saline. Accurately weigh

8.5 g of sodium chloride and add it to 1000 mL of water. Stir until completely dissolved. After packaging, place the mixture at 121 °C. Sterilize for 30 min and set aside.

4.3 Red Bengal agar medium. see Appendix A, A.1.

4.4 Yeast peptone dextrose (YPD) agar medium. see A.2.

5. Instruments and equipment In addition to routine sterilization and culture equipment in microbiology laboratories, other instruments and equipment are as follows:

5.1 Incubator. controllable accuracy ± 1 °C.

5.2 Balance. sensitivity is

0.1 g.

5.3 Optical microscope. 400x to 1000x.

5.4 Slap-type homogenizer and sterile homogenizing bag.

5.5 Vortex mixer.

5.6 Sterile culture dish. 90 mm in diameter.

5.7 Polymerase chain reaction (PCR) instrument.

6 Sampling

Implement in accordance with GB/T 42959.

chinastandards.org · PREVIEW