



Product Sheet

# *Xanthophyllomyces dendrorhous* (ATCC®) 96812™

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Xanthophyllomyces dendrorhous* (ATCC® 96812™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** NRRL Y-17270 [VKM Y-2273]

**Deposited Name:** *Phaffia rhodozyma* Miller et al.

**Product Description:** An ampoule containing viable cells suspended in cryoprotectant.

## Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

## Growth Conditions

**Temperature:** 20°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

For **freeze-dry (lyophilized)** ampoules:

1. Open vial according to enclosed instructions.
2. From a single test tube of **sterile distilled water** (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a sterile pipette and apply directly to the pellet. Stir to form a suspension.
3. Aseptically transfer the suspension **back** into the test tube of sterile distilled water.
4. Let the test tube sit at room temperature (25°C) undisturbed for **at least 2 hours**; overnight rehydration is recommended.
5. Mix the suspension well. Use several drops to inoculate recommended solid or liquid medium.
6. Incubate cultures at recommended temperature.

## DNA Sequence

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 26S ribosomal RNA gene, partial sequence  
AAGGATCATTAGTAAATTTATTCGGGGTCTGTCTTTCGACGGGCCCTACTCTTTCCTATTCTTTAAC  
CCACACCTGTGTCTCTCTCGGAGACGCAAGCTCTTTTATCATTAAACAAACACCAGTCGATTGTATGT  
TCGAAACACTATAAAACACAATAAACTTCAACAACGGATCTCTTGGTTCTCGCATCGATGAAGAAC  
GCAGCGAATTGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACCTT  
GCGCTCCTTGGTATTCCGAGGAGCATGCCTGTTTGAGTGTGCATGAAACACTCTCAACCGGGTGTCCCTTC  
TTTGTGAGAGGCGCCTGGCTTGGACTTGGACGGTCTGTCTGGCCGAAAGCGCGGGTGCCTTGACATGATAA  
GAAATTGTCTCGATCGAGTGTCTGTGTGAGTGTGTGGGTTTCTCGGGACACGCAGACTAGCTAG  
TACAACAAACGACGCATGCGAACTGCTTCTAACGATACTGTGTGTGGTCTTTCGGACTGCATGCG  
CACACTTCTGATCGGGCCTCAAATCAGGTAGGACTACCGCTGAACCTAAG

D1D2 region of the 26S ribosomal RNA gene

CATATCAATAAGCGGAGGAAAAGAACTAACAAAGGATCCCCTAGTAACGGCGAGTGAAGCGGGAT  
GAGCTCAAATTTGAAATCTGGCAGCCTCCGGTTGTCGAGTTGTAACTAGAGAAGCGTTTTCCGTGCC  
GGCCTGTGTACAAGTCCCTTGGAAATAGGCGTCATAGAGGTGAGAATCCCCTCCTTGACACAGACCA  
CCGGTGTATGTGATACGCTCTCGACGAGTCGAGTTGTTGGGAATGCAGCTCAAATTTGGGTGGTAAAT  
TCCATCTAAGGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACCGTGAAGGAAAAGATGAAAA  
GCACCTTTGAAAGAGAGTTAAACAGTACGTGAAATTTGAAAGGAAAACGATTGAAGTCAGTCATG  
CGTGTCTGGACTCAGCTGGGTTCCGCTCAGTCTATTTCCGGGTGCCGAGGTCAGCATCAGTTCCGGC  
GGTGGAAAACGGCGGGGAAGGTGCGATCTCCGGATGTGTTATAGCCCCGTTTGGATGCATCGCGT  
GGGACTGAGGAACGCAGCGCGCCTTTACGGGTCCGGTCTCCGGACAGCAACCGCTTAGGATGCT  
GGCATAATGGCTTTAAACGA

## Isolation

Flux of *Betula verrucosa*, Moscow Region, Russia

## References



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References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).



### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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