



Product Sheet

# *Xanthophyllomyces dendrorhous* (ATCC®) 24202™

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® 24202™)

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  
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Or contact your local distributor

## Description

**Strain Designation:** UCD 67-210 [ATCC 96587, CBS 5905, CCRC 21346, CCY 77-1-1, DSM 5626, IFO 10129, IGC 4172, NCYC 874, NRRL Y-10921]

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

**Product Description:** An ampoule containing viable cells (may include spores and mycelia) 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 200: YM agar or YM broth  
ATCC® Medium 323: Malt agar medium  
ATCC® Medium 337: Potato, dextrose, yeast agar (PDY)

## Growth Conditions

**Temperature:** 20°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

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

1. Open an ampoule 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**; longer (e.g., overnight) rehydration might increase viability of some fungi.
5. Mix the suspension well. Use several drops (or make dilutions if desired) to inoculate recommended solid or liquid medium. Include a control that receives no inoculum.
6. Incubate the inoculum at the propagation conditions recommended.
7. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

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

## DNA Sequence

D1D2 region of the 26S ribosomal RNA gene  
ATATCAATAAGCGGAGGAAAAGAACTAACAGGATCCCTAGTAACGGCGAGTGAAGCGGGATG  
AGCTCAAATTTGAAATCTGGCAGCCTCCGGTTGTCCGAGTTGTAACTAGAGAAGCGTTTTCCGTGCCG  
GCCTGTGTACAAGTCCCTTGAATAGGGCGTCATAGAGGGTGAAGAATCCCGTCTTGACACAGACCAC  
CGGTGCTATGTGATACGCTCTCGACGAGTCGAGTTGTTGGGAATGCAGCTCAAATGGGTGGTAAATT  
CCATCTAAGGCTAAATATTGGCGAGAGACCGATAGCGAACAGTACCGTGAGGGAAAGATGAAAAG  
CACTTTGGAAAGAGAGTTAAACAGTACGTGAAATTGTTGAAAGGGAAACGATTGAAGTCAGTCATGC  
GTGCTCGGACTCAGCTGGGTTCTGCCAGTCTATTTCCGGGTGCCGAGGTCAGCATCAGTTCCGGCG  
GTGGAAAACGGGCGGGGGAAGGTGGCATCTCCGGATGTGTTATAGCCCCGTTTGGATGCATCGCGTG  
GGACTGAGGAACGCAGCGCCCTTACGGGGTTCGGTCTCCGGACACGAACGCGCTTAGGATGCTGG  
CATAATGGCTTTAAACGAC

## Isolation

*Fagus crenata*, Kyoto, Japan

## References

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## Biosafety Level: 1



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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.

## ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## Disclaimers

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