



Product Sheet

# *Aureobasidium pullulans* *var. melanigenum* (ATCC® 15233™)

Please read this **FIRST**

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

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: *Aureobasidium pullulans var. melanigenum* (ATCC® 15233™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

**Description**

**Strain Designation:** QM 279c [CBS 249.65, F.A. 482, IMI 45533]  
**Deposited Name:** *Pullularia pullulans* (de Bary) Berkhout  
**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:** 24°C to 26°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**

No special notes on this strain.  
Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

**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 28S ribosomal RNA gene, partial sequence  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTAAGAGTAAGGGTGCTCAGCGCCGACCTCCAACC  
CTTTGTTGTTAAAACTACCTTGTTGCTTTGGCGGGACCGCTCGGTTCCGAGCCGCTGGGGATTGTCCTCA  
GGCGAGCGCCCGCCAGAGTTAAACCAAACCTCTTGTTATTTAAACCGGTCGTCGAGTTAAATTTTGAA  
TAAATCAAACCTTTCAACAACGGATCTCTTGTTCTCGCATCGATGAAGAACGCAGCGAAATGCGATA  
AGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCTTGGTATTCC  
GAGGGGATGCCTGTTGAGCGTCATTACACCACTCAAGCTATGCTTGGTATTGGGTGCCGCTTAGT  
TGGGCGCGCTTAAAGACCTCGGCGAGGCCACTCCGGCTTTAGGCGTAGTAGAATTTATTCGAACGTCT  
GTCAAAGGAGAGGAACCTGCGGATTGAAACCTTTATTTTCTAGGTTGACCTCGGATCAGGTAGGGA  
TACCGCTGAACCTTAAGCATATCAATA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGAAAAGAAACCAACAGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAAC  
AGCTCAAATTTGAAAGCTAGCCTTCGGGTTTCGATTGTAATTTGTAGAGGATGCTTTGGGTGAAACGCC  
AGTCTAAGTTCCCTTGAACAGGACGTCATAGAGGTGAGAATCCCGTATGTGACTGGAATGTTAACC  
TATGTAAGCTCCTTCGAGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGAGGTAATTTCTTCT  
AAAGCTAAATATTGGCGAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCACTTT  
GGAAAGAGAGTAAAAAGCACGTGAAATTTGAAAGGGAAGCGCTTGAATCAGACTTGTTTAAAC  
TGTTCCGGCCGCTTCTGACCCGTTTACTCAGTTTGGACAGGCCAGCATCAGTTTCGGCGGCCGATAA  
AGGCATTGGGAATGTGCCCTCCACTTCGGTGGAGGTGTTATAGCCCACTGTGTAATACGGCCAGCCGG  
GACTGAGGTCCGCGCTTCGGTAGGATGCTGGCGTAATGGTTGTAAGCGAC




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beta-tubulin (TUB2) gene

```
TTTGTGCTAACGTCCTTCTCCTATAGGTCCACCTCCAGACCGGCCAATGCGTATGCCTACCTGAAATGA  
GCTCCAATTGATTGCGAAGTACGCGTCTGACACTACAAACAGGGTAACCAAGTTGGTGCCTTCTG  
GCAGACCATCTCTGGCGAGCACGGCCTTGACGGCGCTGGTGTGTACGTCGACTCCCTGCGCATCCTCAC  
CCGTAGTGACAGCTCGTACTGCTTACAGCTACAACGGTACCTCAGACCTCCAGCTGGAGCGCATG  
AACGCTACTTCAACGAGGTCAGTCACCAACCATCGGCTCTTGGTCACTATTTGATGCTAATGCCAC  
CATAGGCCCTCTGGTAACAAGTATGTCCCCCGTCCGCTCCTCGACTTGGAGCCCGGTACCATGGACG  
CCGTCCGTGCTGGTCCCTTCGGTCACTCTCCGTCGCCGACAACCTTCGCTCTC
```

## Isolation

Painted wood, Costa Rica

## References

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.

## ATCC Warranty

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## 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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