



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

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

American Type Culture Collection
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Manassas, VA 20108 USA
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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.

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
GGCGAGCGCCCGCCAGAGTTAAACCAAACCTCTTGTTATTTAAACCGGTCGCTGAGTTAAATTTTGAA
TAAATCAAACCTTTCAACAACGGATCTCTTGTTCTCGCATCGATGAAGAACGCAGCGAAATGCGATA
AGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCTTGGTATTCC
GAGGGGATGCCTGTTGAGCGTCATTACACCACTCAAGCTATGCTTGGTATTGGGTGCCGCTTAGT
TGGGCGCGCCTTAAAGACCTCGGCGAGGCCACTCCGGCTTTAGGCGTAGTAGAATTTATTCGAACGTCT
GTCAAAGGAGAGGAACCTGCGGATTGAAACCTTTATTTTCTAGGTTGACCTCGGATCAGGTAGGGA
TACCGCTGAACCTTAAGCATATCAATA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAAC
AGCTCAAATTTGAAAGCTAGCCTTCGGGTTTCGATTGTAATTTGTAGAGGATGCTTTGGGTGAAACGCC
AGTCTAAGTTCCCTTGAACAGGACGTCATAGAGGTGAGAATCCCGTATGTGACTGGAATGTTAACC
TATGTAAGCTCCTTCGAGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGAGGTAATTTCTTCT
AAAGCTAAATATTGGCGAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCACTTT
GGAAAGAGAGTAAAAAGCACGTGAAATTTGAAAGGGAAGCGCTTGAATCAGACTTGTTTAAAC
TGTTCCGGCCGCTTCTGACCCGTTACTCAGTTTGGACAGGCCAGCATCAGTTTCGGCGGCCGATAA
AGGCATTGGGAATGTGCCTCCACTTCGGTGGAGGTGTTATAGCCCACTGTGTAATACGGCCAGCCGG
GACTGAGGTCCGCGCTTCGGTAGGATGCTGGCGTAATGGTTGTAAGCGAC



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beta-tubulin (TUB2) gene

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TTTGTGCTAACGTCCTTCTCCTATAGGTCCACCTCCAGACCGGCCAATGCGTATGCCTACCTGAAATGA  
GCTCCAATTGATTGCGAGAAGTACGCGTCTGACACTACAAACAGGGTAACCAAGTTGGTGCCTTCTG  
GCAGACCATCTCTGGCGAGCACGGCCTTGACGGCGCTGGTGTGTACGTCGACTCCCTGCGCATCCTCAC  
CCGTAGTGACAGCTCGCTGACTGCCTAACAGCTACAACGGTACCTCAGACCTCCAGCTGGAGCGCATG  
AACGCTACTTCAACGAGGTCAGTCACCAACCATCGGCTCTTGGTCACTATTTGATGCTAATGCCAC  
CATAGGCCCTCTGGTAACAAGTATGTCCCCCGTCCGCTCCTCGACTTGGAGCCCGGTACCATGGACG  
CCGTCGGTGTGGTCCCTTCGGTCACTCTCCGTCGCCGACAACCTTCGCTTC
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Isolation

Painted wood, Costa Rica



References

References and other information relating to this product are available online at 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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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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