



Product Sheet

Penicillium citrinum (ATCC® 9849™)

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: *Penicillium citrinum* (ATCC® 9849™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: [11, CBS 342.61, IFO 6352, IMI 321326, IMI 61272, JCM 22607, NRRL 756]

Deposited Name: *Penicillium citrinum* Thom

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 325: Malt extract agar (Blakeslee's formula)

ATCC® Medium 336: Potato dextrose agar (PDA)

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 2-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: Colonies on malt agar at 25°C with slow to moderate growth, velutinous to floccose; mycelium white turning greyish-orange. Conidial masses greyish-turquoise. Conidiophores biverticillate. Phialides flask-shaped. Conidia spherical to subspherical, smooth-walled or finely roughened, 2.2-3.0 µm diam.

Notes

No special notes.

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
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGCGGGCCCTCGGGGCCAACCTCCCAC
CCGTGTTGCCCGAACCTATGTTGCCTCGGCCGGCCCGCGCCCGCCGACGGCCCCCTGAACGCTGTCT
GAAGTTGCAGTCTGAGACCTATAACGAAATTAGTTAAAACCTTCAACAACGGATCTCTGGTTCCGGCA
TCGATGAAGAACGCAGCGAAATGCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTT
TGAACGCACATTGCCCCCTCTGGTATTCCGGAGGGCATGCCGTGCCGAGCGTCATTGCTGCCCTCAAGC
CCGGCTTGTGTGTTGGGCCCGTCCCCCGCCGGGGGACGGGCCGAAAGGCAGCGGGCCACCG
CGTCCGGTCTCGAGCGTATGGGGCTTCGTACCCGCTCTAGTAGCCCGCCGGCCGCGCCAGCCGACCC
CCAACCTTTAATTATCTCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAAT
AA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCCCCCTCGGGTCCGCATTGTAATTTGCAGAGGATGCTTCGGGAACGG
CCCCATCTAAGTGCCTGGAACGGCCGTCATAGAGGGTGAAGTCCCGTCTGGGATGGGGTGGCC




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GCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAATTGGGTGGTAAATTT  
CATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGC  
ACTTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTTCGACACAGACTCGCC  
CGCGGGGTTTCAGCCGGCACTCGTCCCGGTGACTTCCCCCGGGCGGGCCAGCGTCGGTTTGGGCGGC  
CGGTCAAAGGCCTTGGAAGGTAACGCCTCTCGGGGCGTCTTAGCCAGGGGTGCCATGCGGCCTGC  
CCGACCGAGGAACGCGCTTCGGCTCGGACGCTGCATTAATGGTGTGTAAGCAG
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beta-tubulin gene

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TGCCCGAATCCGACGCGTCTTTGTTGACCTACCCCTGAACGGACCCCCCACTTGTTTCATCTTGCTAACC  
TCACCTTTTCCCAACATATAGGTTACCTGCAGACCGGCCAGTGTGTAAGTGCACCTCGAATGATAAT  
CGATTTCTTGGACAAGGAAGACACATTTAATACGATGGTTAATAAATGCTAAACGATATGTGGGGATC  
TATAGGGTAACCAATTGGTGCCGCTTTCTGGTACGTGCTGCAAATCCTGAACGATCAATTGTTGGATA  
CAAAGAGCAATATACTGACCAATCTATAGGCAAACCATTGCTGGCGAGCACGGCCTTGATGGCGATG  
GACAGTAAGTTCTTTTCGACAAGAAGTGTTCAGTTTTTTTCGAGAATGGCGGTCTGATATTTTTGGCA  
GCTACAACGGAACTCCGATCTCCAGCTGGAGCGCATGAACGCTCTACTTACCCACGTAAGTGATACT  
GACCCCAATGCCATTGGAATCATTATCTAACCAACTATTGTTGTTTTATCAATAGGCTTCCGGTGACAA  
GTATGTTCCCGTCCGCTCTGGTTCGACTTGGAGCCCGGTACCATGGACGCTGCTCCGTGCTGGTCCCTTC  
GGCAAGCTTTCCGTCGCCGACAACCTCGTTTTCGGTCAATCCGGTGTGGTAACTG
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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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