



Product Sheet

Penicillium ludwigii (ATCC® 9112™)

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 ludwigii* (ATCC® 9112™)

American Type Culture Collection
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Manassas, VA 20108 USA
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Or contact your local distributor

Description

Strain Designation: USDA 1336.2 [ATCC 9824, CBS 110.66, IMI 61271, NRRL 744, QM 477, VKM F-1827]
Deposited Name: *Penicillium* sp.
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 336: Potato dextrose agar (PDA)
ATCC® Medium 312: Czapek's agar
ATCC® Medium 28: Emmons' modification of Sabouraud's agar

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

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
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACC
CGTGTTTATCATACCTAGTTGCTTCGGCGGGCCCGCGTCATGGCCGCCGGGGGACCCGCCCCCGGG
CCCGCGCCCGCCGAAGCCCCCTGAACGCTGTCTGAAGATTGCAGTCTGAGCGATTAGCTAAATCAGT
TAAACTTTCAACAACGGATCTCTTGGTCCGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAA
TGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGGTATTCCGGGGG
GCATGCCTGTCCGAGCGTCATTGCTGCCCTAAGCACGGCTTGTGTGTTGGGCCCCCGCCCCCGGGTC
CCGGGGGGCGGGCCGAAAGGCAGCGGGCGGCACCGCTCCGGTCCCGAGCGTATGGGGCTTCGTCA
CCCCTCTGTAGGCCCGGGCCGGCGCCCGCGGACCCCTCAATCTTTCTCAGGTTGACCTCGGATC
AGGTAGGATACCCGCTGAACTTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCCCCCTCGGGTCCGCATTGTAATTTGCAGAGGATGCTTCGGGAGCGG
CCCCATCTAAGTCCCTGGAACGGCCCGTCATAGAGGGTGAAGTCCCGTCTGGGATGGGGTCCCCG
CGCCCGTGTGAAGCTCCTTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTC
ATCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCA
CTTTGAAAAGAGAGTTAAACAGCACGTGAAATTTGAAAGGGAAGCGCTTGGCAGCAGACTCGCTC
CGGGGTTTACGCCGGCTTCGGGCCGGTGTACTTCCCGCGGGCCGAGCGTCCGTTTGGGCGGGC
GGTCAAAGGCCCTCGGAATGTAACGCCCCCGGGCGCTTTATAGCCGAGGGTGCCATGCGGGCCAGC
CCGGACCGAGGAACGCGCTTCGGCTCGGACGCTGGCATAATGGTCGTAAGCGAC



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beta-tubulin (TUB2) gene

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CCCACCCCGATTTCGACGCGTCTGTGTTTTCCATTACCCCTGAAGTCAACAACCCCCACCTGTTTCAGCC  
TGTGCTAACCTCCCTCTTTTCGACGACTTTATAGGTCCACCTCCAGACCCGCCAGTGTGTAAGTACGTC  
CAGCAACACGTGGAAGAAGTGTCTATGTGAGGAATGTGATGGTTCGACTAAACGGAATTTGGGTGTTT  
ATAGGGTAACCAAATCGGTGCCGCTTTCTGGTACGTGTCACGCCCGCCAAAACTCCCTCAGCACAAAC  
AAACCATCCCTCAATTGCGACTTTTGGATGGGAAAATTATACTGACTCGAATTACAGGCAGACCATT  
GCTGGTACGATGGCCTTGACGGCGATGGCCAGTAAGTCCATCGATACGCTCTCGATACCCCTCGAC  
GCGGAATGGCGGTCTGATATTTTGGCTAGCTACAACGGTACCTCCGACCTCCAGCTCGAACGCCTGAA  
CGTCTACTTCACCCACGTGAGTTGCGTGGCCAGCCAACGACAACCCCAAAAGCAATTTCTAACTATGA  
ATATTTGGTATATTAGGCCAGCGGTGACAAGTATGTTCCCTCGTCCGTTCTGGTTCGATCTGGAGCCCGG  
TACCATGGACGCTGTCCGTGCCGTCCCTTTGGCAAGCTCTCCGTCGCCGACAACCTCGTCTTCGGTCAG  
TCCGGTGCCCGTAACAACCTGG
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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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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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