



Product Sheet

# Penicillium rubens (ATCC® 9179™)

## 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 rubens* (ATCC® 9179™)

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:** NRRL 832 [ATCC 7813, B 69, CBS 197.46, IMI 17968, QM 940]

**Deposited Name:** *Penicillium notatum* Westling

**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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 312: Czapek's agar

ATCC® Medium 336: Potato dextrose agar (PDA)

## Growth Conditions

**Temperature:** 25°C to 30°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. Viability is typically noticeable after 2 to 3 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](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  
GGTTTCGGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACC  
CGTGTTTATTTTACCTTGTGCTTCGGCGGGCCCGCCTTAACCTGGCCGCCGGGGGGCTTACGCCCCCGGG  
CCCGCGCCCGCCGAAGACACCCTCGAACTCTGTCTGAAGATTGTAGTCTGAGTGAAAAATAAATTATT  
TAAACTTTCAACAACGGATCTCTTGGTTCGGCATCGATGAAGAACGCAGCGAAATGCGATACGTAA  
TGTGAATTGCAAAATCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGGTATTCCGGGGGG  
CATGCCTGTCCGAGCGTCAATTTCTGCCCTCAAGCACGGCTTGTGTGGTGGCCCCGTCCTCCGATCCCGG  
GGGACGGGCCCGAAAGGCAGCGGCGCACCCGCTCCGGTCCGACGATGAGGGCTTTGTACCCCG  
CTCTGTAGGCCCGGCCGGCGCTTCCGATCAACCCAAATTTTATCCAGGTTGACCTCGGATCAGGTAG  
GGATACCCGCTGAACTTAAGCATATCAATAA

Beta-tubulin (TUB2) gene, partial sequence

GATCCCTCCAGACGCGTCTTTTGTTCATATGGCCCTGAGCCACGACCCACCCCAACAGATCTTT  
TGCTAACTTGCTCTAGGTTACCTCCAAACCGGCCAGTGTGTAAGTTCAACATGGAACATCTTTGGAAA  
CATTCTCGATTCTGGGACTAACTGGAATGGGTTATAGGGTAACCAAATGGTCCGCTTTCTGGT  
AAGTCTCGGAGCTTTTTTTTTTCGCGTTGGGTATCAATTGACAAGTTGCTAACTGGATTACAGGCAACC  
ATCTCTGGCGAGCAGGCTCTCGATGGCGATGGACAGTAAGTTTAAACAGTGATAGGGATTCTGGTGGAT  
CACACGCTGATATCTTGTAGGTACAATGGTACCTCCGACCTCCAGCTCGAGCGTATGAACGCTACT  
TCAACCATGTGAGTACAATGACTGGGAATCCGATTGATTGTGCATCATCTGATCGGACGTTTTCTTTGAC  
AATCTAGGCCAGCGGTGACAAGTACGTTCCCGTCCCGTCTCGTTCGATTGGAGCCCGGTACCATGG  
ATGCTGTCCGCTCCGGTCCCTTCGGCAAGCTTTTCGCCCCGACAACTTCGTCTTCGGTCCAGTCCGGTGC  
TGGTAACTGGCCAAAGGGTCACT



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D1D2 region of the 28S ribosomal RNA gene  
ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAA  
GAGCTCAAATTTGAAAGCTGGCTCCTTCGGGGTCCGCATTGTAATTTGTAGAGGATGCTTCGGGAGCG  
GTCCCCATCTAAGTGCCCTGGAACGGGACGTCATAGAGGGTGAGAATCCCGTATGGGATGGGGTGTCC  
GCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGTGTTAAATTT  
CATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGC  
ACTTTGAAAAGAGAGTAAAAAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCAGCCAGACTCGCT  
CGCGGGGTTACGCCGGCATTGTCGCGGTGTACTTCCCGCGGGCGGGCCAGCGTGGTTTGGGCGGT  
CGGTCAAAGGCCCTCGGAAGGTAACGCCCTAGGGGCGCTTATAGCCGAGGGTGCAATGCGACCTG  
CCTAGACCGAGGAACGCGCTTCGGCTCGGACGCTGGCATAATGGTCGTAACGAC

## Isolation

Contaminant in culture labeled '*P. lacticus* Maze & Perrier' from Ph. Biourge 69, Washington, DC

## 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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