



Product Sheet

# *Penicillium rubens* (ATCC® 11709™)

## 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: *Penicillium rubens* (ATCC® 11709™)

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  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** Wis. 49-133 [NRRL 2272]

**Deposited Name:** *Penicillium chrysogenum* 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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 312: Czapek's agar

ATCC® Medium 336: Potato dextrose agar (PDA)

## Growth Conditions

**Temperature:** 20°C to 25°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 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Produces penicillin. The strain was re-identified as *Penicillium rubens*, a close sister of *Penicillium chrysogenum*, based on the multigene sequence analysis.

Additional information on this culture is 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  
GCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACCCGTGTTATTTTACCTTGTTG  
CTTCGGCGGGCCCGCCTTAAGTGGCGCCGGGGGCTTACGCCCGGGCCCGCGCCCGCGAAGACA  
CCCTCGAACTCTGTCTGAAGATTGTAGTCTGAGTGAATAATAAATTTTAAACTTTCAACAACGGA  
TCTCTTGGTTCGGCATCGATGAAGAACGCAGCGAAATGCGATACGTAATGTGAATTGCAAAATCAGT  
GAATCATCGAGTCTTTGAACGCACATTGCGCCCTGGTATTCGGGGGGCATGCCGTGCCGAGCGTCA  
TTTCTGCCCTCAAGCACGGCTTGTGTGTTGGGCCCTCCTCCGATCCCGGGGGACGGGCCCGAAAGGC  
AGCGGCGGCACCGCTCCGGTCTCGAGCGTATGGGCTTTGTACCCGCTCTGTAGGCCCGGCCGGC  
GCTTGCCGATCAACCAAATTTTATCCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAA  
GCATATCAATA

beta-tubulin (TUB2) gene

TCCCTCCAGACGCGTCTTTTGTTCATATGGCCCTGAGCCACGACCCCAACAGATCTTTTG  
CTAAGTGTCTAGGTTCACTCCAAACCGCCAGTGTGAAGTTCAACATGGAACATCTTGGAAACA  
TTCTTCGATTCGTGGGACTAAACTGGAATTGGGTTATAGGGTAACAAATGGTGCCGCTTTCTGGTAA  
GTCTCGGAGCTTTTTTTTCGCGTTGGGTATCAATTGACAAGTTGCTAACTGGATTACAGGCAAAACCTC  
TCTGGCGACGCGTCTCGATGGCGATGGACAGTAAGTTTAAAGTATAGGGATTCTGGTGGATCAC  
ACGCTGATATCTTTGCTAGGTACAATGTTACCTCCGACCTCCAGCTCGAGCGTATGAACGTCTACTTCA  
ACCATGTGAGTACAATGACTGGGAATCGATTGATTGTGCATCATCTGATCGGACGTTTTTCTTTGACAAT  
CTAGGCCAGCGGTGACAAGTACGTTCCCGTGGCGTTCTGGTGCATTTGGAGCCCGGTACCATGGATGC



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TGTCCGCTCCGGTCCCTTCGGCAAGCTTTTCGCCCGACAACCTTCGTCTTCGGTCAGTCCGGTGCTGGT  
AACAACTGGGCCAAGGGT



## Isolation

Selected from Wis. 48-701, ATCC 11707, after N-mustard exposure



## 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.

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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