



Product Sheet

# *Thermomyces lanuginosus* (ATCC® 200065™)

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: *Thermomyces lanuginosus* (ATCC® 200065™)

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Manassas, VA 20108 USA  
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Or contact your local distributor

## Description

**Strain Designation:** 1457

**Deposited Name:** *Thermomyces lanuginosus* Tsiklinsky

**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 350: Emerson YpSs agar

## Growth Conditions

**Temperature:** 50°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

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.

## 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  
AAGGATCATTACCGAGTGC GGGAACCCAGTCGGGTCCCAATCTCCCACCCGTGTCTACCACACCTAGT  
GTTGCTTTGGCGGGCCACTCCTCCGTTGTTCCGCCGGGGGGTTCGTCGCCGGGCGCGGTGTGCCCCCG  
GGGCCCGTGC CCAGAGGCACACTGTGAACGCTTTTGTAATGCGAGGATTGTCTGAGTGACGA  
AATGCAATCGTTCAAACTTTCAACAATGGATCTCTTGGTCCGGCATCGATGAAGAACGCAGCGAAA  
TGCGATAAGTAATGTAATTGCAGAAATCCGTGAATCATCGAATCTTTGAACGCACATTGCGCCCTCTG  
TATTCGGGGGCGCATGCCGTCCGAGCGTCATTGCGAACCTCAAGCACGGCTTGTGTGGGGCCGC  
CGTCCCTCGTTTGGAGGGACGGCCCTGAAAGGCAGCGCGCGCTCGCGTCCCGTCCCGAGCGTAT  
GGGGCTCTGTACGCGCTCAAGGAGGGTCCGGCCGGGGCCATAGCCTCTGAAGGTCAATTCTTCAA  
GGTTGACCTCGGATCAGGTAGGAGTACCCGCTGAACTTAAG

D1D2 region of the 28S ribosomal RNA gene

CATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAA  
GAGCTCAAATTTGAAATCTGGCTCCTTCGGGAGTCCGAGTTGTAATTTGGAGAGGATGCTTCGGGTATG  
GCCCCCGTCTAAGTGCCCTGGAACGGGCCGTCGGAGAGGGTGAAGAACCCCGTCTGGGATGGGAGGCC  
AGGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTAAGTGGGTGGTAAATTT  
CATCTAAAGCTAAATACTGGCCGGAGACCGATAGCGAACAAGTAGAGTGATCGAAAAGATGAAAAGC  
ACTTTGAAAGAGAGTCAAACAGCACGTGAAATTTGTTGAAAGGGAAGCGCTTGC GGTCAGACTCGCT  
CCGGGGGCTCCGTCGGCACTCGTTGCCGGCTACTCCCTCCCGGGGCGGGCCAGCATCAGCTCTGGC  
GGCCGGTGAAGGTTCCCGGAAGGTAGCACCCCTCCGGGGTGTCTTATAGCCGGGGACGGAATACGGC  
CAGCCGGGGCTGAGGAACGCGCTTCGGCTCGGATGCTGGCGTAATGGCCGTAAGCGA

## Isolation

Peak-heated compost mushroom, Denmark; single-spore isolate.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).



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**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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