



Product Sheet

Aspergillus niger (ATCC® 10535™)

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: *Aspergillus niger* (ATCC® 10535™)

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

Deposited Name: *Aspergillus niger* van Tieghem

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 312: Czapek's agar

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: After 7 days on Czapek's medium at 25°C, colonies black, powdery, mycelium inconspicuous, becoming yellow. Conidial heads radiate, stipes pigmented at apex, smooth walled, vesicles spherical, uniseriate. Conidia globosa or subglobosa, echinulata, dark brown.

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
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGCGGGTCCCTTTGGGCCCAACCTCCCATCC
GTGTCTATTGTACCCTGTTGCTTCGGCGGGCCCGCGCTTGTCCGCCGCCGGGGGGCGCCTCTGCCCC
CCGGGCCCGTGCCCGCCGGAGACCCCAACACGAACACTGTCTGAAAGCGTGCAGTCTGAGTTGATTGA
ATGCAATCAGTTAAACTTTCAACAATGGATCTCTTGGTTCGGGCATCGATGAAGAACGACGCGAAAT
GCGATAACTAATGTGAATTGCAGAAATTCAGTGAATCATCGAGTCTTTGAACGCACATTCGCCCCCTGG
TATTCCGGGGGCGATGCCTGTCCGAGCGTATTGCTGCCCTCAAGCCCGGCTTGTGTGGTCCGCCG
TCCCCCTCTCCGGGGGACGGGCCCGAAAGGCAGCGGGCGCACCGCGTCCGATCCTCGAGCGTATGG
GGCTTTGTACATGCTCTGTAGGATTGGCCGGCCCTGCCGACGTTTTCCAACCATTCTTTCCAGTTGA
CCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCTCCTTCGGAGTCCGCATTGTAATTTGCAGAGATGCTTTGGTGCGGC
CCCCGTAAAGTCCCTGGAACGGGCCGTACAGAGAGGGTGAGAATCCCGTCTTGGCGGGGTGTCCTG
GCCCCGTGTAAGACTCCTTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA
TCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCAC



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TTTGAAGAGAGTAAACAGCACGTGAAATTGTTGAAAGGAAGCGCTTGCACCAGACTCGCCCG  
CGGGGTTACGCCGGCATTCTGCGCGTGTACTTCCCCGTGGGCGGGCCAGCGTCCGTTTGGGCGGCCG  
GTCAAAGGCCCTGGAATGTAGTGCCCTCCGGGACACCTTATAGCCAGGGGTGCAATGCGGCCAGCCT  
GGACCAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCGTAACGAC
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beta-tubulin gene

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TTGCCCTCCCCGTCCTCGTCCGTGAGGACGCGTGTGGTTGGCATCTCTTTTGGTCCGGGACCCAC  
CGGTTCTTCGACCAACTCATTCTGTGCTAACTGCATGTCTTTCGTTTCATAGGTTACCTCCAACCG  
GCCAGTGTGAAGTCCAATATATGCTTCGGATGATTGCCCAAGGGTCTTGATTGGTGTGGTGA  
CTAAACAATATATCATGGTGGTTAGGGTAACCAATTGGTGCTGCTTTCTGGTACGTATACAACGCA  
TTGGATTGGGGATGGAACATCGTCTCTTAGGCTATCTCAGCTTGAGTTGAGTGTGCTTCCATTAGGTACA  
TGCTATCGGTCTAAGAACAGCTAACAATTCAACAGGCAGACCATCTCGGCGAGCAGGCTTGTGAC  
GGCTCCGGTGTGAAGTGAACCTTTTTCACACCTCTCAATTGGTCAACAATGGGCAAGGGTGGGTCT  
TCTGACAGCGAGGATAGTTACAATGGCACCTCCGACCTCCAGCTGGAGCGCATGAACGCTACTTCAA  
CGAGGTGAGATCCATCGGACCTTGGCTTTTTCACGACAATATCATCAATGTCCTAATCACTTCAGCAGG  
CTAGCGGTAACAAGTATGTTCCCTGCGCGTCTCGTACCTCGAGCCCGTACCATGGACCCGCTCC  
GTGCCGTCTTTCGGCCAGCTTTCGCCCCGACAACCTTCGCTTTCGGCCAGTCCGGTGTGGTAAACA  
CTGG
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Isolation

Painted pine board, Virginia



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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