



Product Sheet

# *Aspergillus terreus* (ATCC® 1012™)

## 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: *Aspergillus terreus* (ATCC® 1012™)

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:** NRRL 255 [144, ATCC 10071, CBS 601.65, IMI 17294, LSHB Ac24, NCTC 981, QM 1991, VKM F-67, WB 255]

**Deposited Name:** *Aspergillus terreus* 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 325: Malt extract agar (Blakeslee's formula)

ATCC® Medium 336: Potato dextrose agar (PDA)

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

**Colony and Cell Morphology:** On PDA medium at 25°C after 7 days, mycelium white to dingy white, cottony, dense. Hyphae hyaline, guttulate. Conidiophores biseriate. Conidia hyaline, globose to subglobose, smooth, guttulate, 3-6 X 3-5 µm.

## Notes

No special 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  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGCGGGTCTTTATGGCCCAACCTCCCACCC  
GTGACTATTGTACCTTGTGCTTCGGCGGGCCCGCCAGCGTTGCTGGCCCGGGGGGGGACTCGCCCC  
CGGGCCCGTGCCCGCCGAGACCCCAACATGAACCCCTGTTCTGAAAGCTTGCACTGAGTGTGATTCT  
TTGCAATCAGTTAAAACCTTCAACAATGGATCTCTTGTTCCGGCATCGATGAAGAACGCAGCGAAAT  
GCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGG  
TATTCGGGGGGGATGCTGTCCGAGCGTATTGCTGCCCTCAAGCCCGGCTTGTGTGGGCCCTCGT  
CCCCCGCTCCCGGGGACGGGCCGAAAGGCAGCGCGGCACCCGCTCCGGTCCCTCGAGCGTATGG  
GGCTTCGTCTCCGCTCCGTAGGCCCGGGCCGCGCCCGCCGACGATTTATTGCAACTGTTTTTTTCCA  
GGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene


ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG  
AGCTCAAATTTGAAAGCTGGCTCCTTCGGGGTCCGCATTGTAATTTGCAGAGGATGCTTCGGGTGCAGC  
CCCCGTCTAAGTGCCCTGGAACGGGCCGTATAGAGGGTGAGAATCCCGTATGGGGCGGGGTGTCTGC



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GTCCGTGTGAAGCTCCTTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA  
TCTAAAGCTAAACTGGCCGAGACCGATAGCGACAAGTAGAGTGATCGAAAGATGAAAAGCAC  
TTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCAACCAGACTCGCTCG  
CGGGTTACAGCCGGCTTCGGCCCGGTGACTTCCCCGGGGCCAGCGTTCGGTTTGGGCGGCCG  
GTCAAAGGCCTCCGGAATGTAGCGCCCTTCGGGGCGCCTTAGCCGGGGTGCATGCGCCAGCCT  
GGACCAGGAACCGCTTCGGCACGGACGCTGGCATAATGGTTGTAACGAC

beta tubulin gene

TGTGCCGATCCCCCTGTCCCTCTCCCCGACGCTCTCTTTGGGCTGCTCTGAAGTCCAACCCC  
ACCCGTTCCCTGGAGAACTTTGGATGGATTGACTAACATTCTTTCTTCTCGTGATCATAGGTTTCATCTGC  
AAACCGGCCAGTGTGTAAGTGCACCGTGTCTTTTCGATGAGGATGGGGATAGGATGTTTTGTGACAG  
AGACTGAACTGGGTGGTGGTATAGGGTAACCAAATGGTGCCGCTTTCTGGTACGCTCGGAATCAAC  
CTGGGGAATGCTGGCTCTCGTGGGATGCAGAGTCTTACGGACATGCGTCTCGGGCTAAAAAGGGTTC  
TGTGGTGGCATGATGCTGACAACTGTACAGGCAAACCATCTCTGGCGAGCACGGCCTTGATGGCTCCG  
GTGTGTAAGTGTACCCGACGCCCGCTCAATGGGCTCCATAATGGAGTTTTACACGACGATGGACGAT  
TCTGATGTGAAACAGCTTCAATGGCTCTCCGACCTCCAGCTCGAGCGCATGAACGTCTACTTCAACG  
AGGTACGTCCTTCCACACCATCTGGGACAGATTCTCCAGCTCCAAAGACCTCGACACTAATTTGCA  
TCCCTTTAGGCCAGCGAAACAAGTATGTTCTCGTGCCGCTCTCGTTGACCTTGAGCCCGGTACCAT  
GGACCGCTCCGTGCCGGTCCCTTCGGTACGCTTCCGTCCGACAACTCGTCTTCGGCCAGTCTGGT  
GCCGTAACAACCTGG



Isolation

Soil, Connecticut



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

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