



Product Sheet

# *Alternaria alternata* (ATCC® 6663™)

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: *Alternaria alternata* (ATCC® 6663™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Deposited Name:** *Alternaria tenuis* Nees

**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 343: V8 juice agar

ATCC® Medium 336: Potato dextrose agar (PDA)

ATCC® Medium 340: Rabbit food 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 2-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Black light may promote sporulation. This strain sporulates best on Rabbit Food Agar.

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  
GGTCTCCGTAGGTGAACCTGCGGAGGGATCATTACACAAATATGAAGCGGGCTGGAACCTCTCGGG  
GTTACAGCCTTGCTGAATTATTCACCCCTTGCTTTTGCCTACTTCTGTTTCTTGGTGGGTTCCGCCACCA  
CTAGGACAAACATAAACCTTTTGAATTGCAATCAGCGTCAGTAACAAATTAATAATTACAACCTTTCAA  
CAACGGATCTTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAGTGTGAATTGCAG  
AATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCTTTGGTATTCCAAAGGGCATGCCCTGTTT  
GAGCGTCATTTGTACCCTCAAGCTTTGCTTGGTGTGGGCGCTTGTCTCTAGCTTTGCTGGAGACTCGCC  
TTAAAGTAATTGGCAGCCGGCCTACTGGTTTCGGAGCGCAGCACAAGTCGCACTCTCTATCAGCAAAG  
GTCTAGCATCCATTAAGCTTTTTTCAACTTTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAA  
GCATATCAA

D1D2 region of the 28S ribosomal RNA gene


ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAAC  
AGCTCAAATTTGAAATCTGGCTCTTTAGAGTCCGAGTTGTAATTTGCAGAGGGCGCTTTGGCTTTGGCA  
GCGGTCCAAGTTCTTGAACAGGACGTCACAGAGGGTGAGAAATCCCGTACGTGGTCCCTGGCTATTG  
CCGTGTAAAGCCCCTTCGACGAGTCCGAGTTGTTGGGAATGCAGCTCTAAATGGGAGGTACATTTCTTC  
TAAAGCTAAATTTGGCCAGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCACTTT  
GGAAAGAGAGTCAAACAGCAGCTGAAATTTGTTGAAAGGGAAGCGCTTGCAGCCAGACTTGTCTTACAG  
TTGCTCATCCGGGTTTCTACCCGGTGCACCTTCTGTAGGCAGGCCATCAGTTTGGGCGGTAGGAT  
AAAGTCTCTGTACGTCACCTCCTTTTCGGGGAGGCCTTATAGGGGAGACGACATACTACCAGCCTGGA  
CTGAGGTCCGCGCATCTGCTAGGATGCTGGCGTAATGGCTGTAAGCGG



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### Elongation factor 1-alpha gene (EF)

```
TCATTGCCGCCGGTACTGGTGTGAGTTTCGAGGCTGGTATCTCCAAGGATGGCCAGACTCGTGAGCACGCT
CTCCTCGCTTACACCCCTGGTGTCAAGCAGCTCATCGTTGCCATCAACAAGATGGACACCACCAAGTGG
TCCGAGGAGCGTTACCAGGAGATCATCAAGGAGACCTCCAACCTTCATCAAGAAAGTTCGGCTACAACC
CCAAGCACGTTCCCTTCGTCGCCATCTCCGGTTTCAACGGTGACAACATGATTGAGGCCCTCATCCAAC
TCCCTGGTACAAGGGTTGGGAGAAGGAGACCAAGGCCAAGGCCACTGGTAAAGCCCTCCTCGAGG
CCATCGACGCCATCGACCCTCCAGCCGTCACCGACAAGCCCTCCGCTTCCCTCCAGGATGTTTA
CAAGATTGGTGGTATTGGCACGGTCCCGTCCGGTCTGTCGAGACCGTATCATCAAGGCCGGTATGG
TCGTACCTTCGCCCCCGCTGGTGTCAACACTGAAGTCAAGTCCGTCGAGATGCACCACGAGCAGCTCA
CCGAGGGTGTCCCGGTGACAACGTCCGCTTCAACGTCAAGAACGTCTCCGTCAAGGAGATCCGTCGT
GGTAACTGGCCGGTACTCCAAGAACGACCCCCCAAGGGTGGCCGACTCTTCAACGCCAGGTCAT
GTCTCTCAACCACCTGGTTCAGGTCGGTGTGTTACGCCAGTCCCTCGACTGCCACACCCACAT
TGCTTGAAGTCTCTGAGCTCCTCGAGAAGATTGACCGCCGTACCCGAAAGTCTGTTGAGAATCTCC
CAAGTTCATCAAGTCCGGTGACGCCGCCATCGTCAAGATGGTCCCTCCAAGCCATGTGCGTTGAGGC
TTTAC
```

### RNA polymerase II second largest subunit gene (RPB2)

```
TAAGAAGCGTCTAGATCTTGCAGGACCTTGGTCCGCAACTTGTTCGGTATCCTTCTCTGAAGCTCACC
AAGGACGTATAACAAGTACCTCCAGCGATGTGTTGAGAACAAACCAGGACTTCAACGTTCCAGTGGTGT
CAAGGCCAGCATCATCAAAACGGCCTGAAATACTCCCTGGCAACAGGAAATGGGGTGACCAGAAG
AAGGCCGCTTCCGCGAAAGCCGGTGTCTCTCAGGTGTTGAACCGATACACTTACGCCTCCACACTGTCC
CATTTCGCTCGAACAAATACCCTGTTGGTGTGATGAAAGCTGGCCAAGCCGCGACAATCCACAA
CTCTCATTGGGGTCTTGTCTGCCCTGCCGAGACTCCTGAAGGACAGGCATGTGGTCTGGTTAAGAACCT
GTCTTTGATGTGCTATGTTAGTGTCCGTAGTACGCTTCTCCCATCATCGACTTTCATGACACAACGAAAC
ATGCAACTTCTAGAAGAGTATGATCAGAACCAGAACCCCGATGCCACCAAGGTCTTCGTCACCGGTGT
CTGGGTTGGTGTCCATTCCAACGCTCAACAACCTTGTACAGTTGTGACGAGCTGCGACGAAACGGAA
CTCTATCCTATGAGATGAGTCTGATTCGTGACATTCGTGACCGAGAGTTCAAGATCTTACAGATGCTG
GTCGTGTATGAGACCACTGTTGTTGTTGAGAACGACATCCGGAAGCCAAACCGCAATCACCTCATCT
TCACCAAGGAGATCAGTAAACAAGCTCAAGCAGGAGCAACAAGAGACAAAGCAGACAGAGGGTGG
AGCCAGATGAGGTCGAGTACCTACCGCTGGAGAGGTCTTATTCAAGACGGTGTGTTGGAGTA
CCTAGACGCTGAAGAGGAGGAGACCGCCATGATAACGTTCTCCCTGAGGATCTGGAGGAGTGGCGA
GAGATGAAATGGGCTTCCGCGGGCTGAGCGATCCACCGAGGGTGGACCGCTCCTCCAGCGCTCA
AGCCACTACCAGACCCCGCATCCATGCCTATACTCATTGCGAGATTCATCCTGCTATGATTCTCGGTAT
CTGTGCCAGTATTATCCCTTCCCGATCACAAACCAATCGCCCCGTAACACTTACCAATCTGCT
```

### 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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## *Alternaria alternata*

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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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