



Product Sheet

# *Exserohilum turcicum* (ATCC® 64835™)

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: *Exserohilum turcicum* (ATCC® 64835™)

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

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Or contact your local distributor

## Description

**Strain Designation:** 2-11

**Deposited Name:** *Exserohilum turcicum* (Passerini) Leonard et Suggs

**Product Description:** An ampoule containing viable cells (yeast cells, spores, or agar cubes with 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 334: Oatmeal agar

ATCC® Medium 335: Potato carrot agar

ATCC® Medium 336: Potato dextrose agar (PDA)

## Growth Conditions

**Temperature:** 24°C to 26°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

**Frozen ampoules** packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a **25°C to 30°C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer at least 50 µL (or 2-3 agar cubes) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 4-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** On Potato dextrose agar at 25°C after 7 days colonies spreading, woolly or hairy, brown, grey or black. Conidiophores emerging singly or in groups through stomata. Conidia straight or slightly curved, ellipsoidal to obclavate, pale to mid straw-colored, smooth with 4-9 pseudoseptate.

## 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  
TCCGTAGGTGAACCTGCGGAGGGATCATTACACAAAGATATGAAGGTAGGGTACTGGCAACAGTGCT  
CTGCTGAAATATTTACCCATGTCTTTGCGCACTTTTGTCTTCTGGGCGAGTTGCTGCCACCAGGA  
CCCCATATGAACCTTTTTGTTTTGCACTCAGCGTCAGTACAATAATTAATCTATTAACCTTTCAAC  
AACGGATCTCTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATACGTAGTGTGAATTGCAGA  
ATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCTTTGGTATTTCAAAGGGCATGCCTGTTTCG  
AGCGTCAATTTGACCTCAAGCTTTGCTTGGTGTGGCGTCTTATTGCTCTCCGCTCTCGGGGAGACTCG  
CCTTAAACAATTGGCAGCCGCGCTACTGGTTTCGGAGCGCAGCACAAATTTGCGCTTGCAATCAGCC  
AAGGGCGGCATCCATGAAGCCTTTTTCTCTCACATTTTGACCTCGGATCAGGTAGGGATACCCGCTGA  
ACTTAAG

D1D2 region of the 28S ribosomal RNA gene

CATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAA  
CAGCTCAAATTTGAAATCTGGCTCTTTAGAGTCCGAGTTGTAATTTGCAGAGGGCGCTTTGGCTTTGGC  
AGCGGTCCAAGTTCCTTGGAAACAGGACGTCACAGAGGGTGAGAAATCCCAGTGGTGGCTAGCTATT  
CGCGTGTAAAGCCCTTCGACGAGTCGAGTTGTTTGGAAATGCAGCTCAAATGGGAGGTAATTTCTT  
CTAAAGCTAAATTTGGCCAGAGACCGATAGCGCACAAAGTAGAGTATCGAAAGATGAAAAGCATT  
TGAAAAGAGAGTCAAACAGCACGTGAAATGTTGAAAGGGAAGCGCTTGCAGCCAGACTTGCCTTGA  
GTTGCTCATCCGGCTTTTGGCCGGTGCCTCTTCTGCAGGCAGGCCAGCATCAGTTTGGCGGTGGGA  
TAAAGTCTCTGTATGACCTCTCTCGGGGAGGCCTTATAGGGGAGGCGACATACCACCAGCCTAG  
ACTGAGTCCGCGCATCTGCTAGGATGCTGCCGTAATGGCTGTAAGCGGC



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## Isolation

Corn leaf, *Zea mays*, Texas

## 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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