



Product Sheet

# Gaeumannomyces graminis (ATCC® 64419™)

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: *Gaeumannomyces graminis* (ATCC® 64419™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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## Description

**Strain Designation:** ZOY-Ggg

**Deposited Name:** *Gaeumannomyces graminis* (Saccardo) von Arx et Olivier

**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 323: Malt agar medium

## 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. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 3-5 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  
AGGGATCATTAAAGAGTTGAAAACTCCAACCCCTGTGAACCTACCTTTACTGTTGCTTCGGCGGAATA  
TGGCCCCCGGGCCGACGTCGCGGAGGTTACAAACCCTGAATTTAGTGTATCTCTGAGCACAAAA  
CCAAATAATTAACCTTTCAACAACGGATCTCTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGC  
GATAAGTAATGTGAATTGCAGAATTCAAGTGAATCATCGAATCTTTGAACGCACATTGCGCCGCCGGT  
ATTCCGGCGGGCATGCCTGTCCGAGCGTCATTTCACTCAAGCCCAGCTTGGTGTGGGGCACCCGG  
CCGCCCGGGTCCGGGGCCCCAAGAACATCGGCGGTCTCGCCAGGACCTGAACGCAGTAACTCGC  
GGTAAACGCGCTTCGTTCCGAGGCTTTCCGGCGGGCTCCAGCCGCTAAACCCCTAAACTTCTTAGG  
TTGACTCGGATCAGGTAGGAATACCCGCTGAACCTAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCTAGTAAACGGCGAGTGAAGCGGCAAC  
AGCTCAAATTTGAAATCTGGCCCTAGGCCGAGTTGTAATTTGCAGAGGATGCTTTTGGCAAAGCGCTT  
ACCGAGTCCCCTGGAACGGGGCCACAGAGGGTGAGAGCCCGTATGGTTTGACGCCGAGCCTCTG  
TAAAGCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCTAAATGGGAGGTAAATTTCTTCTAAAG  
CTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCACTTTGAAA  
AGAGGGTTAAATAGCACGTGAAATGTTGAAAGGGAAGCGCTCGTGACCAGACTTGCGCCGGGCGGA  
TCATCCAGCGTTCTCGCTGGTGCCTCCGCCCGGCTCAGGCCAGATCGGTTTTCGCCGGGGACAAAA  
GCTTCGGGAACGTGGCTCCCTTCGGGAGTGTATAGCCCGTTGTTTAAACCCCGGCGGGGACCGAG  
GACCGCGCTTCGGCAAGGATGCTGGCGTAATGGTCATCAGCGA

## Isolation

*Zoysia* sp., Virginia

## References



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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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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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