





Product Sheet

Chaetomium sp. (ATCC® MYA-4959™)

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: *Chaetomium sp.* (ATCC® MYA-4959™)

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

Strain Designation: BDM-GG

Deposited Name: *Chaetomium sp.*

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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 336: Potato dextrose agar (PDA)

Growth Conditions

Temperature: 20°C to 25°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 μ L (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 3-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On PDA at 25°C after 5 days, mycelium creamy white to dingy white, velvinous to woolly, growing on and into the media. Reverse tan to mustard yellow. Hyphae hyaline, guttulate. Spores hyaline, globose to subglobose, thick walled, smooth to faintly textured, 12.5-19 X 11.5-17.5 μ m.

Notes

Grows on, and physically degrades the compostable plastic 'BioAgri' when provided as sole carbon source. 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: AGGGATCATTACAGAGTTGCAAAACTCCCTAAACCATTGTGAACGTTACCTTCAAACCGTTGCTTCGGC GGGCGGCCCGGTCCGCCCGGTGCCCCCTGGCCCCCTAGCGGGCGCCCGCGGAGGAAACCCAACCTT GATTATTATGGCCTCTCTGAGTCTTCTGACTGAATAAGTCAAACCTTTCAACAACGGATCTCTTGG TTCTGGCATCGATGAAGAACGCGAGCGAAAATGCGATAAGTAATGTAATTGCAGAATTCAGTGAATCAT CGAATCTTTGAACGCACATTGCCCGCCAGTATTCTGGCGGGCATGCCTGTTGAGCGTCATTTCAAC CATCAAGCCCCAGGCTTGTTGGGGACCTGCGGCTGCCGCAGGCCCTGAAAACAGTGGCGGGCTCG CTGTACACCCGGGCTAGTAGATTTTTATCTCGCTCAGGGCTGCTCGGGTTCCGGCCGTTAAAGCCCT TTTTACCCAAGGTTGACCTCGGATCAGGTAGGAATACCCGCTGAACCTAA

D1D2 region of the 28S ribosomal RNA gene; GenBank number:

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAAC AGCTCAAATTTGAAATCTGGCTTCGGCCCCGAGTTGTAATTTGCAGAGGAAGCTTTAGGCGCGCACCA TCTGAGTCCCTGGAACGGGGCGCCACAGAGGGTGAGAGCCCGTATAGATGGACGCCTAGCCTGTG TAAAGCTCCTTCGACGAGTCTGAGTCTTTGGGAATGCTGCTCAAAATGGGAGGTAAATTTCTTCTAAA GCTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCACTTTGAA



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AAGAGGGTTAAATAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGACCAGACTTGCGCCGGGCGG
ATCATCCGGTGTCTCACCCTGACTCCGCCCGCTCAGGCCAGCATCGGTTCTCGTGGGGGATAAA
GGCACCGGGAACGTAGCTCCTCCGGGAGTGTATAGCCCGGGCGTAATGCCCTCGCGGGACCGAG
GACCGCATCTGCAAGGATGCTGGCGTAATGGTCATCAGCGA

beta-tubulin gene:

GCCTGTCCCTGCATACCTGCCACGACCCCGATAGCCTGCGACGCGTCTGGGATACTTTCTGAGACC
CTGATCTACCCACACACTGGGAGGACGTCGTTCCACCAGCCCGACCGCGGAGAGCGGTGCGGGC
GCTGCCATGATGGAATGTACACGATGCTGACTCTATCTTTCTACTACAGGTCCACCTCCAGACCGGCCA
ATGCGTAAGTTGGATCGATTGAAACAGGCAACCGACCGGATGGAGCGGATGGACTGACAAACAACC
TCTCTAGGGTAACCAAATTTGGTGCCGCTTTCTGGTATGTTCTGCCTCAACATCAAGCAATGACGTATCA
AGACCAAGCAAGACTGACTTCCACCCAGGCAGACCATTCCGGCGGAGCAGGCCCTCGACAGCAATG
CGGTGATGTGACCGTCGCGGATTCGGCCGATGAATCCCTCGCTCACCGCTTCGATAGGTACAACGG
CAGCTCCGAGTCCAGCTCGAGCGCATGAACGTCTACTTCAACAGGATGAGTCGGGCCCGTACGCGCT
TCAGCCAGCCAAACGGCCGTGGTCTGCTGACGACAAATATTCTGCAGGCGTCCGCAACAAGTATGTCC
CCCGTGCCGCTTGTGCGACTTGGAGCCCGGCACCATGGATGCCGTCCGCGCCGGTCTTTCCGGCCAGC
TCTCCGCCCGACAATTC

RPB2 gene:

CTGGTGTGCCAGGTGTTGAACCGTTACACCTTCTCCTCGACCTTGTGCGATTGCGGCGTACCAACAC
ACCCATTGGGCGGACGGCAAACCTGGCCAAGCCTCGCCAATTCATAACACCCATTGGGGCCTTGTGT
GTCCGGCAGAGACGCGGGAAGGCCAGGCTTGGGTCGCTCAAGAACCTGTCCTGATGTGCTACGTT
AGTGTGGGCACACCGGCGGACCCCATCGTCGAGTTCATGTTGCCCCGTGGTATGGAAGTGCTCGAGGA
GTACGAGCCACTGCGGTACCCCAATGCAACCAAGGTGTTTGTCAACGGCACATGGGTGCGGTGACATC
AGGACCCGAAACACCTGGTCAACCCTGGTTCAGGGGTTGCGGAGGAAGAAGCTCATCTCTTTCCGAGGTT
TCACTCGTCCGGGACATTGGGACCGCGAGTTCAAGATTTTCTCCGACGCGGGCGGTGATGAGGCC
GCTGTTACCGTAGAACAGGAGAAGAACGGAGAGAGCGGCGCAGAGATGGGCCAGCTCATTCTCAA
TAAGGACCACATTACGAGATTGGAGGCGGACAAGGAGTTGGGCAAGTATCACCCCGACTACTGGGGC
TGCCAGGGCTTGTGAAGTCCGGGCGCCATCGAGTACCTCGATGCCAAGAAGAGGAGACGGTCATGA
T

 **Isolation**

Soil-buried compostable plastic 'BioAgri', Lubbock, TX.

 **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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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damages arising from the misidentification or misrepresentation of cultures.

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


Additional information on this culture is available on the ATCC web site at www.atcc.org.

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