



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 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 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, velvety 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 µm.

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 GGGCGGCCCGGTCCGCCCGGTGCCCCCTGGCCCCCTAGCGGGCGCCCGCCGGAGGAAACCCAACCT CTGATTATTATGGCCTCTCTGAGTCTTCTGTAAGTAAAGTCAAACCTTTCAACAACGGATCTCTTGG TTCTGGCATCGATGAAGAACGCGAGCGAAATGCGATAAGTAATGTGAATTCGAGAATTCAGTGAATCAT CGAATCTTTGAACGCACATTGCCGCCCGCCAGTATTCTGGCGGGCATGCCTGTTTCGAGCGTCATTTCAAC CATCAAGCCCCAGGCTTGTGTTGGGGACCTGCGGCTGCCGCAGGCCCTGAAAACCAAGTGGCGGGCTCG CTGTACACCCGGCGTAGTAGATTTTATCTCGCTCAGGGCGTGTCTGCGGTTCCGGCCGTTAAAAGCCT TTTTACCCAAGGTTGACCTCGGATCAGGTAGGAATACCCGCTGAACCTAA

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


ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAAC AGCTCAAATTTGAAATCTGGCTTCGGCCCCGAGTTGTAATTTGCAGAGGAAGCTTTAGGCGCGCACCA TCTGAGTCCCTGGAACGGGGCGCCACAGAGGGTGAGAGCCCGTATAGATGGACGCCTAGCCTGTG TAAAGCTCCTTCGACGAGTCTGAGTATTGGGAATGCTGCTCAAATGGGAGGTAAATTTCTTCTAAA GCTAAATACCGGCCAGAGACCGATAGCGCACAAAGTAGAGTATCGAAAGATGAAAAGCACTTTGAA




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AAGAGGGTTAAATAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGTGACCAGACTTGCGCCGGGCGG
ATCATCCGGTGTTCACCCGGTGCCTCCGCCCGGCTCAGGCCAGCATCGGTTCTCGTGGGGGATAAA
GGCACCGGGAACGTAGCTCCTCCGGGAGTGTATAGCCCGGGCGTAATGCCCTCGCGGGGACCGAG
GACCGCGCATCTGCAAGGATGCTGGCGTAATGGTCATCAGCGA

beta-tubulin gene:

GCCTGTCCCTGCATACCTGCCACGACCCCGATAGCCTGCGACGCGTCTGGGATACTTTCTGAGACC
CTGATCTACCCACACACTGGGAGGACGTCGTTCCACCAGCCCGACCGGCGGAGAGCGGTGCGGGC
GCTGCCATGATGGAATGTACACGATGCTGACTCTATCTTTCTACTACAGGTCCACCTCCAGACCGGCCA
ATGCGTAAGTTGGATCGATTGCAACACGGCAACCGACCGGATGGAGCGGATGGACTGACAAACAACC
TCTCTAGGGTAACCAAAATTGGTGCCGCTTTCTGGTATGTTCTGCCTCAACATCAAGCAATGACGTATCA
AGACCAAGCAAGACTGACTTCCACCCAGGCAGACCATTTCCGGCGGAGCAGCGCCTCGACAGCAATG
CGGTGATGTGACCGTCGCGGATTTCCGGCCGATGAATCCCTCGCTCACCGCTTCGATAGGTACAACGG
CCTCCGAGTCCAGCTCGAGCGCATGAACGTCTACTTCAACAGAGGTGAGTCGGGCCCGGTACGCGCT
TCAGCCAGCCAAACGGCCGTGGTCTGCTGACGACAAATATTCTGCAGGCGTCCGCAACAAGTATGTCC
CCCGTGCCGCTTGTGCGACTTGGAGCCCGGCACCATGGATGCCGTCCGCGCCGGTCTTTCCGGCCAGC
TCTTCCGCCCGACAATTC

RPB2 gene:

CTGGTGTGTCCAGGTGTTGAACCGTTACACCTTCTCCTCGACCTTGTGCGATTGCGGGCGTACCAACAC
ACCCATTGGGGCGGACGGCAAACCTGGCCAAGCCTCGCCAATTCATAACACCCATTGGGGCCTTGTGT
GTCCGGCAGAGACCGCGGAAGGCCAGGCTTGCGGTCTCGTCAAGAACCTGCTCCTGATGTGCTACGTT
AGTGTGGGCACACCGGCGGACCCCATCGTCGAGTTCATGTTGCCCGTGGTATGGAAGTGTCTCGAGGA
GTACGAGCCACTGCGGTACCCCAATGCAACCAAGGTGTTTGTCAACGGCACATGGGTGCGGTGTACATC
AGGACCCGAAACACCTGGTCAACCTGGTTCAGGGGTTGCGGAGGAAGAAGCTCATCTCTTTCCGAGGTT
TCACTCGTCCGGGACATTCGGGACCGCGAGTTCAAGATTTTCTCCGACGCGGGCGGTGTGATGAGGCC
GCTGTTACCGTAGAACAGGAGAAGAACGGAGAGAGCGGGCGCAGAGATGGGCCAGCTCATTCTCAA
TAAGGACCACATTACGAGATTGGAGGCGGACAAGGAGTTGGGCAAGTATCACCCCGACTACTGGGGC
TGCCAGGGCTTGTGAAGTCCGGGCGCCATCGAGTACCTCGATGCCGAAGAAGAGGAGACGGTTCATGA
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.

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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


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

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