



Product Sheet

Cryptococcus amyloletus (ATCC® 56469™)

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: *Cryptococcus amyloletus* (ATCC® 56469™)

American Type Culture Collection
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Manassas, VA 20108 USA
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800.638.6597 or 703.365.2700
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Or contact your local distributor

Description

Strain Designation: NRRL Y-7784 [CBS 6039, IFO 10423, JCM 1690]

Deposited Name: *Cryptococcus amyloletus* (van der Walt et al.) Golubev

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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 324: Malt extract 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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: After 3 days on YM at 25°C, two colony types present on plates. One type off-white, smooth, mucoid, glistening; yeast cells subglobose or ovoid, single or in pairs, no pseudohyphae present. Second type white, raised, rough, dull; yeast cells subglobose or ovoid, single or in pairs, pseudohyphae present.

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
AAGGATCAGTAGAGAATAACGGACTTCGGTCCATATATCTACCCATCTACACCTGTGAACCGTATTTGT
GCTTCGGCAGCTTTTACACAACTTCTAAATGTAATGAATGAACTATTATAACAATAATAAACTTT
CAACAACGGATCTCTTGGCTCCACATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTG
CAGAATTCAGTGAATCATCGAGTCTTTGAACGCAACTTGCGCCCTTTGGTATTCCGAAGGGCATGCCTG
TTTGAGAGTCATGAACATCTCAATCCTTCGGGTTTATGACCTGTTGGCATTGGATTGGGTGTTTGCCGC
GACCTGCAAAGGACGTCGGCTCGCCTTAAATGTGTTAGTGGGAAGTGATTACCTGTCAGCCCAGCT
AATAAGTTTCGTTGGCCATGGGGTAGTTGTCGGCTTGCTTATAACAACCATCTTTTTGTTTGACCTCA
AATCAGGTAGGGCTACCCGCTGAACCTAAG

D1D2 region of the 28S ribosomal RNA gene
CATATCAATAAGCGGAGAAAAGAACTAACAAGGATCCCTAGTAACGCGGAGTGAACCGGGAA
GAGCTCAAATTTGAAATCTGGCGTCCCTTCGGGCGTCCGAGTTGTAATCTACAGAAACGTTTTCCGTGCT
GGACTGTGCTAAGTTCCTTGAATAGGATATCAAAGAGGGTGACAATCCCGTACTTGACACAATCAC
CAGTGCTCTGTGATACGTTTTCTACGAGTCGCGTTGCTTGGGAATGCAGCGCAAATGGGTGGTAACT
CCATCTAAAGCTAAATATTGGTGGAAAGCCGATAGCGAACAAGTACCGTGAGGGAAAGATGAAAAG
CACTTTGGAAAGAGAGTTAAACAGTACGTGAAATTGTTGAAAGGGGAAACGATTGAAAGTCAGTCGTGT
CTATTGGGTTCAACCAGTCTGCTGGTGTATTCCCTTTAGACGGGTCAACATCAGTCTGATCGGTGGAT
AAGGGCAGGGAATGTAGCAATCTTCGGGTTGTTATAGCCTTGTGTCGCATACACTGGTTGGGACT
GAGGAATGCAGCTCGCCTTATGGCCGGGTTCCGCCAGTTCGAGCTTAGGATGTTGACAAAATGGC
TTTAAACGAC



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Isolation

Frass of the tunnels of *Sinoxylon ruficorne* infesting *Dichrostachys cinerea* near Groblersdal, Transvaal, South Africa

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