Aspergillus nidulans
(ATCC® 38163™)

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: Aspergillus nidulans (ATCC® 38163™)

Description

Strain Designation: G00 [ATCC 12996, ATCC 26451, C. Thom 5616.1, CBS 112.46, Glasgow wild-type, Pontecorvo strain, IMI 38576i, NRRL 194, SRRC 273, WB 194, Yuill A69, biA-1]
Deposited Name: Aspergillus nidulans (Edam) Winter
Genotype: argB
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 324: Malt extract agar
ATCC® Medium 325: Malt extract agar (Blakeslee’s formula)
ATCC® Medium 336: Potato dextrose agar (PDA)

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 2-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On PDA medium at 25°C after 6 days, mycelium buff to cinnamon brown becoming army green as conidia develop, velutinous. Reverse tan to reddish brown becoming dark reddish brown. Hyphae hyaline with some stained dark red, guttulate. Conidia globose to subglobose, green, roughened, 4.5-6 X 4.5 μm.

Notes

No special notes.

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.

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Fax: 703.365.2750
Email: Tech@atcc.org
Or contact your local distributor

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CCCTGTCTAAGTGCCCTGGAACGGGCCGTCAGAGAGGGTGAGAATCCCGTCTTGGGCAGGGTGCCCGT
GCCCGTGAGCTCCTTGGCAGGGTGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA
TCTAAAGGAAAAACTACCGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCACA
TTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCGACCAGACTCGGCC
CGGGGTTCAGCCAGCACTCGTGCTGGTGTACTTCCCCGGGGGCGGGCCAGCGTCGGTTTGGGCGGCCG
GTCAAAGGCCCCAGGAATGTATCGCCCTCCGGGGTTGTCTTATAGCCTGGGGTGCAATGCGGCCAGCC
CGGACCGAGGAACGCGCTTCGGCACGGACGCTGGCGTAATGGTCGCAAACGAC

Calmodulin (CAL)

TATTGGAAAGTGCTTTCTATTGTTACTTTATATCAAAATCGAATTTGTATTGAGAGTATACTAATACATTCC
GCACTAAACAGGACAAGGATGGCGATGGTTAGTGCATCTGTCCCCCCAGGCTTGATCGCATTCGCCCA
GCATGTCTGCTGTAGCTCTATATAACCGTTTCTGACAAACGGCGACAGGCCAGATTACCACTAAGGAG
CTTGGCACTGTCATGCGCTCGCTCGGTCAGAATCCTTCAGAGTCTGAGCTTCAGGACATGATCAACGAA
GTTGACGCCGACAACAATGCGACACCATTGACCTTCCAGTGACGGAATCTCCCAATCTACTTGCAACAGG
CCTAGAAATGTACTAATGCTAAACAGAGTTCCTTA

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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