An ampoule containing viable cells (may include spores and mycelia) suspended in cryoprotectant.

Let the test tube sit at room temperature (25°C) undisturbed (ATCC)

Colonies initially white or yellowish, mycelium growing rapidly producing a longer (e.g., 20°C to 25°C)

Open an ampoule according to enclosed instructions.

20°C to 25°C

Aseptically transfer the suspension back into the test tube of sterile distilled water.

Incubate the inoculum at the propagation conditions recommended.

Mix the suspension well. Use several drops (or make dilutions if desired) to inoculate recommended manner:

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. Viability is typically noticeable after 2-11 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: Colonies initially white or yellowish, mycelium growing rapidly producing a dense layer of erect smooth-stippled, conidiophores terminated by globose vesicles bearing phialides (uniseriate) or metulae with phialides (biseriate) which produce dry chains of conidia. Reverse pale to grayish or greenish yellow. Vesicles radiate, initially pale, becoming dark brown to black. Conidia spherical, mid-to-dark brown, highly roughened with ridges and blunt or pointed protuberances, (3-4)-5(6) μm in diameter. Sporulation may be inhibited when grown in vessels with reduced gas exchange. Colonies may exhibit sectoring with areas of varying levels of sporulation. Use of freshly produced spores as inoculum should reduce sectoring.

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 brasiliensis (ATCC® 16404™)

Product Description:

Aspergillus brasiliensis (ATCC® 16404™)

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

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.

Recommended Procedure

ATCC® Medium 336: Potato dextrose agar (PDA)
ATCC® Medium 325: Malt extract agar (Blakeslee’s formula)
ATCC® Medium 28: Emmons’ modification of Sabouraud’s agar

Growth Conditions

Temperature: 20°C to 25°C
Atmosphere: Typical aerobic

Notes

This strain was identified as belonging to the new species Aspergillus brasiliensis (see Varga et al. 2007 and Houseknecht et al., 2008.) Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.
D1D2 region of the 28S Ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCTCCTTTCGGAGTCCGCATTGTAATTTGCAGAGGATGCTTTGGGTGCGGC
CCCCGTCTAAGTGCCCTGGGAACGGGCCGTCAGAGAGGGTGAGAATCCCGTCTTGGGCGGGGTGTCCGT
GCCGGTGTAAAGCTCCTTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA
TCTAAAGCTAATATCGGCAAGAACCCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCAC
TTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCGACCAGACTCGCCCG
CGGGGTTCAGCCGGCATTCGTGCCGGTGTACTTCCCCGTGGGCGGGCCAGCGTCGGTTTGGGCGGCCG
GTCAAAGGCCCCTGGGAATGTAGTGCCCTCCGGGGCACCTTATAGCCAGGGGTGCAATGCGGCCAGCCT
GGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCGTAAACGAC

Blueberry, North Carolina

References

References and other information relating to this product are available online at www.atcc.org.

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 for Disease Control and Prevention and National Institutes for Health.

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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

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