ATCC

Product Sheet

Aspergillus brasiliensis (ATCC® 9642™)

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 brasiliensis* (ATCC® 9642™)

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: SN 26 [Australian Mycol. Panel series 26, CBS 246.65, DSM 63263, IFO 6342, IMI 91855, NRRL 3536, NRRL A-5243, QM 386]
Deposited Name: *Aspergillus niger* van Tieghem
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 336: Potato dextrose agar (PDA)
ATCC® Medium 28: Emmons' modification of Sabouraud's agar
ATCC® Medium 200: YM agar or YM broth

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.

Notes

Colonies initially white, mycelium growing rapidly (to cover a plate in 8 to 10 days), soon producing dense layer of erect smooth-stiped, thick-walled conidiophores terminated by globose vesicles bearing phialides (uniseriate) or (commonly) metulae with phialides (biseriate) which produce dry chains of conidia. Reverse of plate pale yellow or cream, often showing radiating ridges in mycelium. Spore heads radiate, sometimes dividing into columns with age, initially pale, becoming dark brown to black. Individual conidia spherical, mid-to-dark brown, highly roughened with ridges and blunt or pointed protuberances, 3.5 to 6 µm in diameter.

Will grow equally well up to at least 37°C. Sporulation may be inhibited in plates sealed completely with tape or film. Colonies grown directly from rehydrated spores may exhibit sectoring, with areas of varying levels of sporulation.

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
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGCGGGTCCTTTGGGCCCAACCTCCCATCC
GTGTCTATTGTACCCTGTTGCTTCGGCGGGCCCGCCGCTTGTCGGCCGCCGGGGGGGGCGCCTCTGCCCC
CCGGGCCCGTGCCCGCCGGAGACCCCAACACGAACCCTGTCTGAAAGCGTGCAGTCTGAGTCGATTGT
TTGCAATCAGTTAAAACTTTCAACAATGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAAT
GCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGG
TATTCCGGGGGGCATGCCTGTCCGAGCGTCATTGCTGCCCTCAAGCCCGGCTTGTGTGTTGGGTCGCCG
TCCCCTCTCTCCGGGGGGGACGGGCCCGAAAGGCAGCGGCGGCACCGCGTCCGATCCTCGAGCGTATG
GGGCTTTGTCACATGCTCTGTAGGATTGGCCGGCGCCTGCCGACGTTTTCCAACCATTCTTTCCAGGTTG
ACCTCGGATCAGGTAGGGATACCCGCTGAACTTAAGCATATCAA

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beta-tubulin gene
TTTCCCTCCCCGTCCCTCGTCTGTCAGGAGACGCGTCGTTGGTTGGCATCTCTTCTGATCGGGACCCCAC
CGGTTCTTCGACCAACTCAATCTTGTGCTAACTGCATGTCTTCGTCGCTTCATAGGTTCACCTCCAAACC
GGCCAGTGTGTAAGTGCCAACATGTTCTTCGGATGATAGCCCCCAAGGGTTCTTGATTGGTGTTCGGTG
GACTAAACAACATATCATGGTGGTTAGGGTAACCAAATTGGTGCTGCTTTCTGGTATGTATCCACTGCC
ACTGGATTGGGGATGGGACATCATCCATCAGGCTATCTCTCTCAGCTTGAGTTCGGATGATGTCCATTG
GGTATATGTTGTCGGTATAACAACACGTCTAACAGTTCAACAGGCAGACCATCTCTGGCGAGCACGGC
CTTGACGGCTCCGGTGTGTAAGTGCAACTTTTTTCACACCTCTCAATTGGTCAACAATGGGGAAAGGAT
TGGGTTTCCTGACGCGCAGGATAGTTACAATGGCACCTCCGACCTCCAGCTGGAGCGCATGAACGTTT
ACTTCAACCAY

Isolation

Wireless radio equipment, New South Wales, Australia

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

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Disclaimers

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