Aspergillus brasiliensis Varga et al.

CRM-16404™

Description

Lyophilized fungal spores and mycelium residue in a vial

Notice: Live microbial certified reference materials (CRMs) will be discontinued at the end of 2026. The same strains previously offered as CRMs are now available in our precisely quantitated MicroQuant™ format, providing a reliable alternative for your needs.
Strain designation: WLRI 034(120) [CBS 733.88, DSM 1387, DSM 1988, IFO 9455, IMI 149007, NCPF 2275]
Deposited As: Aspergillus niger van Tieghem, anamorph
Type strain: No

Storage Conditions

Product format: Freeze-dried

Intended Use

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

Certified Reference Material produced under an ISO 17034 accredited process.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as

guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:
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/broth
Temperature: 20-25°C
Atmosphere: Aerobic

Handling Procedures

For freeze-dry (lyophilized) ampoules:

1. Open vial 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 to rehydrate it. Stir to form a suspension.
3. Aseptically transfer the rehydrated pellet (suspension) back into the test tube with the sterile distilled water. Mix well.
4. Let the test tube sit at room temperature (~23 °C) for at least 2 hours, if not overnight.
5. Mix the suspension well. Use several drops to inoculate a test tube or slant or a plate with recommended medium.
6. Incubate the test tube or plate at the temperature recommended for 2-11 days.

Morphology: Colonies initially white or yellowish, mycelium growing rapidly (to cover plate in 5 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. Revers of plate pale to grayish or greenish yellow, 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-)4-5(-6) micrometers in diameter.

Notes

Certificates of Analysis are available electronically at www.atcc.org, or by hardcopy upon request.

Sporulation may be inhibited in plates sealed completely with tape. Colonies grown directly from rehydrated spores may exhibit sectoring, with areas of varying levels of sporulation. Intermittent light exposure helps sporulation after incubating 48 hours at 30°C.

This strain was identified as belonging to the new species *Aspergillus brasiliensis*,

described in the following two publications:

1. Varga et al. 2007. Int. J. Syst. Evol. Microbiol. 57:1925-1932.
2. Houseknecht, J., Stamenova, E., Suh, S.-O., Beck, B., McKee, M. & Zhou. J. 2008. Reclassification of ATCC® 16404™ and ATCC® 9642™ as *Aspergillus brasiliensis*. Pharmaceutical Microbiology Forum Newsletter 14: 2-8.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Aspergillus brasiliensis* Varga et al. (ATCC CRM-16404)

References

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

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Revision

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Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor