



Product Sheet

# *Aspergillus brasiliensis* (ATCC® 16404™)

## Please read this FIRST



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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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® 16404™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** WLRI 034(120) [CBS 733.88, DSM 1387, DSM 1988, IFO 9455, IMI 149007, NCPF 2275]  
**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 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

## 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. Viability is typically noticeable after 2 to 3 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-stiped, 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.

## 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](http://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.  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGC GGGTCTTTGGGCCCAACCTCCCATCC  
GTGTCTATTGTACCCGTTGCTTCGCGGGGCCCGCTTGTGCGCCGCCGGGGGGCGCCTCTGCCCC  
CCGGGCCCGTGCCCGCCGAGACCCCAACACGAACCCTGTCTGAAAGCGTGCAGTCTGAGTCGATTGT  
TTGCAATCAGTTAAACCTTTCAACAATGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAAT  
GCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGG  
TATTCGGGGGGGCATGCCTGTCCGAGCGTCATTGCTGCCCTCAAGCCCGGCTTGTGTGTTGGGTCCCG  
TCCCCTCTCCGGGGGACGGGCCGAAAGGCAGCGCGGCACCCGCTCCGATCCTCGAGCGTATG  
GGCCTTTGTCACATGCTCTGTAGGATTGGCCGCGCCTGCCGACGTTTTCCAACCATCTTTCCAGGTTG  
ACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA



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D1D2 region of the 28S Ribosomal RNA gene  
ATATCAATAAGCGGAGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG  
AGCTCAAATTTGAAAGCTGGCTCCTTCGGAGTCCGCATTGTAATTTGCAGAGGATGCTTTGGGTGCGGC  
CCCCGTCTAAGTGCCTGGAACGGGCCGTGAGAGAGGGTGAGAATCCCGTCTTGGCGGGGTGCTCCGT  
GCCCCGTGTAAGCTCCTTCGACGAGTCCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA  
TCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCAC  
TTTAAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCAGCCAGACTCGCCCG  
CGGGGTTGAGCCGGCATTGTCGCGGTGACTTCCCGTGGCGGGCCAGCGTCCGTTTGGCGGCCG  
GTCAAAGGCCCTGGAATGTAGTCCCTCCGGGCACCTTATAGCCAGGGGTGCAATGCGGCCAGCCT  
GGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCGTAACGAC

## Isolation

Blueberry, North Carolina

## References

References and other information relating to this product are available online at [www.atcc.org](http://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](http://www.atcc.org).  
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