



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**

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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® 9642™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
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## 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](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  
GGTTTCCTAGGTGAACCTGCGGAAGGATCATTACCGAGTGCGGGTCTTTGGGCCAACCTCCCATCC  
GTGTCTATTGTACCCGTTTGCTTCGGCGGGCCCGCGCTTGTCGCGCCCGGGGGGGCGCCTCTGCCCC  
CCGGGCCCGTGCCCGCCGAGACCCCAACACGAACCCTGTCTGAAAGCGTGACAGTCTGAGTCGATTGT  
TTGCAATCAGTTAAACATTTCAACAATGGATCTCTTGTTCCGGCATCGATGAAGAACGCGAGCAAAT  
GCGATAACTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTGG  
TATTCGGGGGGCATGCCTGTCCGAGCGTCATTGCTGCCCTAAGCCCGCTTGTTGTTGGTCCGCCG  
TCCCCTCTCTCCGGGGGGACGGGCCCGAAAGGCAGCGCGGCACCGCGTCCGATCCTCGAGCGTATG  
GGGCTTTGTACATGCTCTGTAGGATTGGCCGGCGCCTGCCGACGTTTTCCAACCATTCTTCCAGGTTG  
ACCTCGGATCAGGTAGGGATACCCGCTGAACTTAAGCATATCAA



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beta-tubulin gene

```
TTTCCCTCCCCGTCCTCTGTCTCAGGAGACGCGTCTGGTTGGCATCTCTTCTGATCGGGACCCAC  
CGGTTCTTCGACCAACTCAATCTTGCTAACTGCATGTCTTCGTCGCTCATAGGTTCACTCCAACC  
GGCCAGTGTGTAAGTGCCAACATGTTCTTCGGATGATAGCCCCAAGGGTCTTGATTGGTTCGGTG  
GACTAAACAACATATCATGGTGGTTAGGGTAACCAAAATTGGTGTCTTCTGGTATGTATCCACTGCC  
ACTGGATTGGGGATGGGACATCATCCATCAGGCTATCTCTCAGCTTGAGTTCGGATGATGTCATTG  
GGTATATGTTGTCGGTATAACAACACGTCTAACAGTTCAACAGGCAGACCATCTCTGGCGAGCAGGC  
CTTGACGGCTCCGGTGTGTAAGTGCAACTTTTTTACACCTCTCAATTGGTCAACAATGGGGAAAGGAT  
TGGGTTTCTGACGCGCAGGATAGTTACAATGGCACCTCCGACCTCCAGCTGGAGCGCATGAACGTTT  
ACTTCAACCAY
```

D1D2 region of the 28S ribosomal RNA gene

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CATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAA  
GAGCTCAAATTTGAAAGCTGGCTCCTTCGGAGTCCGATTGTAATTTGCAGAGGATGCTTTGGGTGCGG  
CCCCGTCTAAGTGCCCTGGAACGGGCCGTCAGAGAGGGTGAATCCCGTCTTGGGCGGGGTGTCGG  
TGCCCGTGTAAAGCTCCTTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGTTAAATTC  
ATCTAAAGCTAAATACTGGCCGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCA  
CTTTGAAAAGAGAGTTAAACAGCAGCTGAAATGTTGAAAGGGAAGCGCTTGCAGACCAGACTCGCCC  
GCGGGGTTAGCCGCGATTGTCGCGGTGTAATCCCGTGGGCGGGCCAGCGTTCGGTTTGGGCGGCC  
GGTCAAAGGCCCTGGAATGTAGTGCCCTCCGGGGCACCTTATAGCCAGGGGTGCAATGCGGCCAGC  
CTGGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCTAAACGA
```



### Isolation

Wireless radio equipment, New South Wales, Australia



### 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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