



Product Sheet

# *Aspergillus fumigatus* (ATCC® 1022™)

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  
**2**

## 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 fumigatus* (ATCC® 1022™)

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  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** NRRL 163 [118, CBS 133.61, IMI 16152, LSHB Ac71, NCTC 982, QM 1981, WB 163]  
**Deposited Name:** *Aspergillus fumigatus* Fresenius  
**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 312: Czapek's agar  
ATCC® Medium 336: Potato dextrose agar (PDA)  
ATCC® Medium 28: Emmons' modification of Sabouraud's agar

## 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.

**Colony and Cell Morphology:** On PDA medium at 25°C after 22 days, mycelium are white becoming olive green, velutinous to cottony and the reverse is tan. The conidia are verrucose and olive green. The vesicles are sub-globose to clavate and 16.5 to 18 µm. The hyphae are hyaline.

## Notes

No special notes.

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  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTACCGAGTGAGGGCCCTCTGGGTCCAACCTCCCACC  
CGTGTCTATCGTACCTTGTGCTTCGGCGGGCCCGCGTTTCGACGGCCCGCGGGGAGGCCTTGCGCCC  
CCGGGCCCGCGCCCGCCGAAGACCCCAACATGAACGCTGTTCTGAAAGTATGCAGTCTGAGTTGATTA  
TCGTAATCAGTTAAAACTTCAACAACGATCTCTTGTTCCGGCATCGATGAAGAACGCAGCGAAAT  
GCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCCCTG  
GTATTCCGGGGGGCATGCCTGTCCGAGCGTCATTGCTGCCCTCAAGCACGGCTTGTGTGGGCCCCCC  
GTCCCCCTCTCCCGGGGACGGGCCGAAAGGCAGCGCGGCACCGCTCCGGTCTCGAGCGTATG  
GGGCTTTGTACCTGCTCTGTAGGCCCGCGCGCCAGCCGACCCCAACTTTATTTTTCTAAGTTGA  
CCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene  
ATATCAATAAGCGGAGGAAAAGAACCAACAGGGATTGCCTCAGTAAACGGCGAGTGAAGCGGCAAG  
AGCTCAAATTTGAAAGCTGGCCCCCTCGGGTCCCGGTTGTAATTTGCAGAGGATGCTTCGGGTGCAGC  
CCCCGTCTAAGTGCCCTGGAACGGGCCGTATAGAGGGTGAGAATCCCGTCTGGGACGGGGTGTCTGC  
GTCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA



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TCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGATGAAAAGCAC  
TTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGTTTGCACCAGACTCGCCCG  
CGGGGTTACAGCCGGCATTCTGTCGGGTGTACTTCCCGTGGCGGGCCAGCGTCCGTTTGGGCGGCCG  
GTCAAAGGCCCTCGGAATGTATCACCTCTCGGGGTGTCTTATAGCCGAGGGTGCAATGCGGCCTGCCT  
GGACCAGGAACGCGCTTCGGCTCGGACGCTGGCGTAATGGTCGTAATGAC
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### Isolation

Lung of chicken, Connecticut



### References

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



### Biosafety Level: 2

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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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).  
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