



Product Sheet

# *Aspergillus niger* (ATCC® MYA-4892™)

## Please read this FIRST



## 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 niger* (ATCC® MYA-4892™)

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  
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Or contact your local distributor

## Description

**Strain Designation:** FGSC A1513 [CBS 513.88]

### Product Description:

An ampoule containing viable cells (yeast cells, spores, or agar cubes with 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 324: Malt extract agar

ATCC® Medium 336: Potato dextrose agar (PDA)

## Growth Conditions

**Temperature:** 20°C to 25°C

**Atmosphere:** Typical Aerobic

## Recommended Procedure

**Frozen ampoules** packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a 25°C to 30°C water bath, until just thawed (approximately 5 minutes). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer at least 50 µl (or 2-3 agar cubes) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. 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:** After 9 days at 25°C on YM agar, colonies chocolate brown with creamy yellow margin, velutinus, deeply sulcate. Reverse dark mustard to bright yellow. On malt extract agar, colonies dark brown in the center becoming tan with a white margin, velutinus, beginning to sector. Reverse tan to buff. Hyphae guttulate. Conidial heads radiate, uniseriate, phialides ovoid to obpyriform. Conidia reddish brown, faintly roughened texture, 5-6.75 X 5-6µm.

## Notes

Genome sequencing strain (the Joint Genome Institute at the Department of Energy, USA)

## 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; GenBank number JX174051:

```
AAGGATCATTACCGAGTGCGGGTCTTTGGGCCAACCTCCCATCCGTGTCTATTGTACCCTGTTGCTTC
GGCGGGCCCGCCGCTTGTGCGCCGCCGGGGGGCGCCTCTGCCCCCGGGCCCGTGCCTGCCCGGAGA
CCCCAACACGAACACTGTCTGAAAGCGTGCAGTCTGAGTTGATTGAATGCAATCAGTTAAACTTTCA
ACAATGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAATGCGATAACTAATGTGAATTGCA
GAATTCAGTGAATCATCGAGTCTTTGAACGCACATTGCGCCCTGTTATCCGGGGGGCATGCCTGTC
CGAGCGTCATTGCTGCCCTCAAGCCCGGCTTGTGTGTTGGTTCGCCCTCCCCTCTCCGGGGGGACGGG
CCCGAAAGGCAGCGCGGCACCGCTCCGATCCTCGAGCGTATGGGGCTTTGTACATGCTCTGTAGG
ATTGGCCGGCGCCTGCCGACG
```

>D1D2 region of the 28S ribosomal RNA gene; GenBank number JX174040:

```
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCTCCTTCGGAGTCCGCATTGTAATTTGCAGAGGATGCTTTGGGTGCGGC
```



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```
CCCCGTCTAAGTGCCTGGAACGGGCGCTCAGAGAGGGTGAGAATCCCGTCTTGGGCGGGGTGCCGT  
GCCCGTGTAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTCA  
TCTAAAGCTAAATACTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCAC  
TTTGAAGAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCAGCCAGACTCGCCCG  
CGGGGTTAGCCGGCATTCTGTCGGGTGTACTTCCCGTGGGCGGGCCAGCGTCGGTTTGGGCGGCCG  
GTCAAAGGCCCTGGAATGTAGTGCCCTCCGGGGCACCTTATAGCCAGGGGTGCAATGCGCCAGCCT  
GGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAAT
```



## 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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## Disclaimers

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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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