




Product Sheet


# Penicillium citrinum (ATCC® MYA-4958™)

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: *Penicillium citrinum* (ATCC® MYA-4958™)

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:** BDM-J

**Deposited Name:** *Penicillium* sp.

**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 200: YM agar or YM broth

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 3-5 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 5 days, mycelium white becoming green as conidia develop, velutinous to woolly, becoming sulcate. Reverse bright yellow. Hyphae hyaline, guttulate. Conidiophore stipes verrucose, triverticulate. Phialides flask shaped. Conidia pale green, globose, smooth.

## Notes

Utilizes polylactic acid as a sole carbon source; minimally alters chain length of polymers. Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

D1D2 region of the 28S ribosomal RNA gene:

```
ATATCAATAAGCGGAGAAAAGAAACCAACCGGGATTGCCCTAGTAACGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAAGCTGGCCCCCTCGGGTCCGCATTGTAATTTGCAGAGGATGCTTCGGGAACGG
CCCCATCTAAGTGCCCTGGAACGGGCCGTCATAGAGGGTGAGAATCCCGTCTGGGATGGGGTGGCC
GCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAATTGGGTGTAATTT
CATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAAGATGAAAAGC
ACTTTGAAAAGAGAGTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTCGACCGACTCGCC
CGCGGGGTTTACCGGCACTCGTGCCGGTGTACTTCCCCGCGGGCGGGCCAGCGTCCGGTTTGGCGGC
CGGTCAAAGGCTCTGGAAGTAACGCCTCTCGGGGCTCTTATAGCCAGGGGTGCCATGCGGCCTGC
CCGACCGAGGAACGCGCTTCGGCTCGGACGCTGGCATAATGGTCGTAAGCGA
```

beta-tubulin gene:

```
GTCTGCCCCGAATCCGACGCGTCTTTGTTGACCTACCCTGAACGGACCCCCACTTGTTCATCTTGCTA
ACCTCACCTTTTCCCAACATATAGTTTACCTGCAGACCGGCCAGTGTGTAAGTGCACCTCGAATAAT
AATCGATTTCTTGGACAAGGAAGACACATTTAATATGATGGTTAATAAATGCTAAACGATATGTGGGG
ATCTATAGGGTAACCAAATTTGGTCCGCTTTCTGGTACGTGCTGCAAATCCTGAAAAGATCAATTGTTGG
ATACAAAGAGCAATATACTGACCAATTCTATAGGCAAACCATTTGCTGGCGAGCACGGCCTTGATGGCC
```



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ATGGACAGTAAGTTCTTTTCGACAAAGAAGTGTTCACGTTTTTCGAGAATGGCGGTCTGATATTTTTGGG  
CAGCTACAACGGAACCTCCGATCTCCAGCTGGAGCGCATGAACGTCTACTTCACCCACGTAAGTGATA  
CTGACCCCAATGCCATTGGAATCATTATCTAACCAACTATTGTTTGTATCAATAGGCTTCAGGTGAC  
AAGTATGTTCCCGTGCCGCTCTGGTCGACTTGGAGCCCGGTACCATGGACGCTGTCCGTGCTGGTCCC  
TTCGGCAAGCTTTTCCGTCCCGAC

RPB2 gene:

AACGCTGCGTTGAGACCAACCGTGAGATTTACTTGAACATTGGTCTGAAGGCTGCAACTCTGACTAGT  
GGTCTCAAATATGCGCTTGTACAGGTAAGTGGGGTGAGCAAAAGAAGGCAGCTAGCGCCAAGGCTG  
GTGTTTCTCAAGTGTGAGTCGTTATACATTTGCTTCCCTCGCTGTCTCACTTGCCTGACAAACACGCC  
ATTGGTCGTGATGGTAAGATTGCCAAACCTCGTCAGCTTCATAATACACACTGGGGTCTGGTTTGTCCA  
GCCGAAACCCCGAAGGACAGGCTTGTGGTCTGTCAAGAACTGGCGCTCATGTCTACATCACTGTC  
GGTACTCTAGCGAGCCTATTATCGACTTCATGATCCAGCGAAATGGAAGTTTTGGAAGAGTTTGA  
GCCCAAGTCACACCGAATGCCACGAAAGTCTTTGTTAATGGTGTCTGGGTCGGTATCCACCGTGATCC  
GTCCGATCTGGTGAACACTATGCAATCGCTGCGTGCACGCAACATGATCTCTCAGAAAGTCAGTTTGT  
TCGGGATATCCGCGAGCGAGAGTTCAAGATTTTACCAGTACTGGACGTGTCTGCTGCCATTGTTGCTG  
GTTGACAATGATCCCAAGAGCGAAAATGCTGGATCTTTGATTCTCAACAAGGAACATATTCACAAGCT  
TGAACAAGATAAGGACTTGCCACTTGATATGGACGTGGAAGAGCGCCGGAGCGTTACTTCGGATGG  
GATGGTCTGGTTTCGATCAGGAGCTGTGCAATACGTCGATGCAGAAAGAGGAGACGATCATGATCG  
TCATGACACCGGAAGATCTCGAGATCTCAAACAGCTTCAAGCTGGCTATGCACTGCCCGAGGAGGA  
GACTAATGATCCGAAACGAGTTCCGCTCAATCTTAGCCAGCGGCCACACCTGGACTCACTGTG  
A

### Isolation

Soil-buried compostable plastic (polylactic acid), Knoxville, TN.

### 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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