



Product Sheet

# *Fusarium oxysporum f. sp. vasinfectum* (ATCC® 96291™)

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: *Fusarium oxysporum f. sp. vasinfectum* (ATCC® 96291™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
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800.638.6597 or 703.365.2700  
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Or contact your local distributor

## Description

**Strain Designation:** 24232

**Deposited Name:** *Fusarium oxysporum f. sp. vasinfectum* (Atkinson) Snyder et Hansen, anamorph

**Product Description:** An ampoule containing viable cells 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 343: V8 juice agar

## 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 for up to 4 weeks. The time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 5 days on V-8 juice medium at 25°C, colony is white, cottony, reverse uncolored. Microconidia abundant, hyaline, cylindrical. After 15 days on V-8 juice medium at 25°C, reverse is dark purple, macroconidia are present, fusiform, slightly curved.

## Notes

vegetative compatibility group VCG 01111

Additional information on this culture is 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.  
GAAGTAAAAGTCGTAACAAGTCTCCGTTGGTGAACCAGCGGAGGATCATTACCGAGTTTACAACCTC  
CCAAACCCCTGTGAACATACCACTTGTTCCTCGCGGATCAGCCCGCTCCCGGTAACAAACGGGACGGC  
CCGCCAGAGGACCCCTAACTCTGTTTCTATATGTAACCTCTGAGTAAAACCATAAATAAATCAAACT  
TTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGACGAAAAATGCGATAAGTAATGTGAAT  
TGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGGGCATGCC  
TGTTTCGAGCGTCATTTCAACCTCAAGCACAGCTTGGTGTGGGACTCGCTTAATTCGCGTTCCCTCAA  
TTGATTGGCGGTACGTCGAGCTTCCATAGCGTAGTAGTAAAACCCCTCGTTACTGGTAATCGTCGCCGC  
CACGCCGTTAAACCCCACTTCTGAATGTTGACCTCGGATCAGGTAGGAATACCCGCTGAACCTAAGC  
ATATCAATAAGCGGAGGAA

## Isolation

cotton stem, *Gossypium hirsutum*, southern Queensland, Australia

## References


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**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.

## ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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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