



Product Sheet

Fusarium keratoplasticum (ATCC® 36031™)

Please read this **FIRST**

 Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

 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: *Fusarium keratoplasticum* (ATCC® 36031™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
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: FIV/74 [NRRL 22641]

Deposited Name: *Fusarium solani* (Martius) Saccardo

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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 336: Potato dextrose agar (PDA)

Growth Conditions

Temperature: 24°C to 26°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. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 5-6 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Notes

This strain appeared to be a slow grower and less hardy than other *Fusarium* strains. Sporulation was also less and slower than other strains. To increase the recoverability from freeze-dried form, it is recommended to rehydrate in only 1 ml of water and transfer half of that to a agar plate rather than rehydrating in the full 5 ml.

Additional, updated information on this product may be available on the ATCC® web site at 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
GGTCTCCGTTGGTGAACAGCGGAGGGATCATTACCGAGTTATACAACCTCATCAACCCTGTGAACATA
CCTAAAACGTTGCTTCGGCGGGAACAGACGGCCCCGTAACACGGGCGCCCCGCCAGAGGACCCCC
TAACTCTGTTTCTATTATGTTTCTTCTGAGTAAAACAAGCAAATAAATTTCAACAACGGATCT
CTTGGCTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTG
AATCATCGAATCTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGGGCATGCCCTGTTTCGAGCGTCAT
TACAACCCTCAGGCCCCCGGGCCTGGCGTTGGGATCGGCGAGGCGCCCCCTGCGGGCACACGCCGTC
CCCCAAATACAGTGGCGGTCCCGCCGACGCTTCCATTGCGTAGTAGCTAACACCTCGAACTGGAGAG
CGGCGCGGCCACGCCGTAACACCACTTCTGAATGTTGACCTCGAATCAGGTAGGAATACCCGCT
GAACCTAAGCATATCAATA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAAC
AGCTCAAATTTGAAATCTGGCTCTCGGGCCCGAGTTGTAATTTGTAGAGGATGCTTTTGGTGGAGTGCC
TTCCGAGTTCCCTGGAACGGGACGCCATAGAGGGTGAAGCCCGTCTGGTTGGACACCGATCCTCTG
TAAAGTCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCTAAATGGGAGGTATATGCTTCTTAAAG
CTAAATACCGGCCAGAGACCGATAGCGACAAGTAGAGTGATCGAAAGATGAAAAGAACTTTGAAA



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AGAGAGTTAACAGTACGTGAAATTGTTGAAAGGGAAGCGCTTGTGACCAGACTTGGGCTTGGTTGAT
CATCCGGGGTTCTCCCGGTGCACCTTCCGGCCAGGCCAGCATCAGTTCGCCCTGGGGGACAAAGG
CTTCGGGAATGTGGCTCTCTCCGGGAGTGTATAGCCCGTTGCGTAATACCCTGTGGCGGACTGAGGT
TCGCGCATTGCAAGGATGCTGGCGTAATGGTCATCAGTGAC
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elongation factor (EF) 1-alpha gene

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GTCGTCATCGGCCACGTCGACTCTGGCAAGTCGACCACCGTAAGTCAAACCTCATCGCGATCTGCTTA
TCTCGGGTCGTGGAACCCCGCTGGTATCTCGGGCGGGGATTTCATCAGTCACTTCATGCTGACAATCA
TCTACAGACCGGTCACTTGATCTACCAGTGGCGGTGATCGACAAGCGAACCATCGAGAAGTTCGAGA
AGGTTGGTGACATCTCCCGGATCGCGCCTTGCTATTCCACATCGAATCCCTCCCTCGCGATACGGTCT
GCGCCCGCTTCTCCCGAGTCCAAAATTTTTGCGGTCCGACCCTAATTTTTTTTTTGGTGGGGCATTACC
CCGCCACTCGGGCGACGTTGGACAAAGCCCTGATCCCTGCACACAAAAACACCAAACCTCTTGGCGC
CGCATCATCACGTGGTTTACAACAGACGCTAACCGGTCCAACAATAGGAAGCCGCTGAGCTCGGTA
GGTTCCTTCAAGTACGCTGGTCTTGACAAGCTCAAGGCCGAGCGTGAGCGTGGTATCACCATCG
ACATTGCCCTCTGGAAGTTCGAGACTCCCGCTACTATGTACCCGTCATTGGTATGTTGCTGTCACCTCT
CTCACATGTCTCACCCTAACAAATCAACAGACGCCCGGCCACCGTATTTCATCAAG
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Isolation

Corneal ulcer in man, Anambra State, Nigeria



References

References and other information relating to this product are available online at 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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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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