



Product Sheet

Trichoderma reesei

(ATCC® 26921™)

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
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: *Trichoderma reesei* (ATCC® 26921™)

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
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: QM 9414 [3019, CBS 392.92, T.V. B118]

Deposited Name: *Trichoderma viride* Persoon : Fries

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 336: Potato dextrose agar (PDA)
ATCC® Medium 323: Malt agar medium
ATCC® Medium 325: Malt extract agar (Blakeslee's formula)

Growth Conditions

Temperature: 20°C to 25°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. Viability is typically noticeable after 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Notes

No special notes.

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
GGTCTCCGTTGGTGAACCGAGCGAGGGATCATTACCGAGTTTACAACCTCCCAAACCCCAATGTGAACG
TTACCAATCTGTTGCCCTCGGGGGATTCTCTGCCCGGGCGCGTCGACGCCCGGATCCCATGGCGCCC
GCCGGAGGACCAACTCAAACCTCTTTTTCTCTCCGTCGCGGCTCCGTCGCGGCTCTGTTTTACCTTTGCT
CTGAGCCTTTCTCGGCGACCCTAGCGGGCGTCTCGAAAATGAATCAAACTTTCAACAACGGATCTCTT
GGTTCTGGCATCGATGAAGAACGACGCGAAATGCGATAAGTAATGTGAATTGCAGAAATCAGTGAAT
CATCGAATCTTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGGGCATGCCTGTCCGAGCGTCATTTT
AACCCCTCGAACCCCTCCGGGGGGTTCGGCGTTGGGATCGGCCCTCACCGGGCCGCCCGGAAATACA
GTGGCGGTCTCGCCGACGCTCTCCTGCGCAGTAGTTTGCACACTCGCACCGGGAGCGCGCGCGGCC
ACAGCCGTAAAACACCCCAAACCTCTGAAATGTTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTA
AGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCGAGTAACGGCGAGTGAAGCGGCAAC
AGCTCAAATTTGAATCTGGCCCTTTTCGGGTCCGAGTTGTAATTTGTAGAGGATGCTTTTGGCAAGCGC
CCGCCCGAGTTCCTGGAACGGGACGCCACAGAGGGTGAGAGCCCGTCTGGCTGGCCGCCGAGCCT
CTGTAAGCTCCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAAATGGGAGGTATATGCTTTCTA
AAGCTAAATTTGGCCAGAGACCGATAGCGCACAAAGTAGAGTATCGAAAGATGAAAAGCACCTTG
AAAAGAGGGTTAAATAGTACGTGAAATGTTGAAAAGGGAAGCGCTTGTGACCAGACTTGGGCGCGGC
GGATCATCCGGGTTCTCCCGGTGCACTTCGCCGTGTCCAGGCCAGCATCAGTTCGTGCGGGGGAA
AAAGCTTCGGGAACGTGGCTCCCTGGGAGTGTATAGCCGTTGCATAATACCTGCGGTGGACTG




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AGGACCGCGCATCTGCAAGGATGCTGGCGTAATGGTCACCAGCGAC

calmodulin gene

TCTTTGTGAGTTTTTTGAACGTCTTTACTGCGGCAACCCGGTAGGGGGTTGTTTTCAGGGTGTGACC
GAGCTGCTCTACAGGACAAGGACGGCGATGGTACGTGATGGCGAGTGACGCGACAACACACCTATTG
CCCTCTCGACGAAGCCGACCCGAAGCACTTTGTGCCGATCGATCACTCTATCGTCGACTCGAATCATGA
TACATGGACAAGAACTGACAGGCTTGACCTCGTAGGCCAGATCACCACCAAGGAGTTGGGCACCGT
GATGCGCTCTCTCGGCCAGAACCCTCCGAGTCGGAGCTGCAGGACATGATCAACGAGGTTGACGCCG
ACAACAACGGCTCCATCGACTTCCCTGGTATGTGAATTGTTGGGAGATTGGTGGTTAGGTATACGGG
CTGACGTGGAGCGGTGAAGAATTTCTCA

Elongation factor 1-alpha

CCAGGCCGACTGCGCTATCCTCATCATCGCTGCCGGTACTGGTGTGAGTTCGAGGCTGGTATCTCCAAGGA
TGGCCAGACCCGTGAGCAGCTCTGCTCGCCTACACCCTGGGTGTCAAGCAGCTCATCGTCGCCATCAA
CAAGATGGACTGCCAACTGGGCCGAGGCTCGTTACCAGGAAATCATCAAGGAGACTTCCAACCTTC
ATCAAGAAGGTGCGCTTCAACCCCAAGGCCGTTGCTTTCGTCGCCATCTCCGGCTTCAACGGTGACAAC
ATGCTACCCCTCCACCAACTGCCCTGGTACAAGGGCTGGGAGAAGGAGACCAAGGCTGGCAAGT
TCACCGGCAAGACCCTCCTTGGGCCATCGACTCCATCGAGCCCCCAAGCGTCCACGGACAAGCCC
CTGCGTCTTCCCCTCCAGGACGTCTACAAGATCGGTGGTATCGGAACAGTTCGCCGTCCGCCGTATCGAG
ACTGGTGTCTCAAGCCCGGTATGGTCTTACCTTCGCTCCCTCCAACGTCAACACTGAAGTCAAGTCC
GTGAGATGCACCACGAGCAGCTCGCTGAGGGCCAGCCTGGTACAACGTTGGTTTTCAACGTGAAGA
ACGTTTTCCGTCAAGGAAATCCGCCGTGGCAACGTTGCCGGTACTCCAAGAACGACCCCCCATGGGC
GCCGCTTCTTTACCCGCCAGGTCATGTCATGAACCACCCCGGCCAGGTCCGGTCCGGCTACGCCCC
GTCCTCGACTGCCACACTGCCACATTGCTGCAAGTTCGCCGAGCTCCTCGAGAAGATCGACCCCGT
ACCGGTAAGGCTACCAGTCTGCCCCCAAGTTCATCAAGTCTGGTACTCCGCCATCGTCAAGATGATC
CCCTCAAGCCATGTGCGTTGAGGCTTTCACCGACTACCCTCCCTGGGTGTTCCGCCGTCCGTGACA
T

 **Isolation**

Mutant of ATCC 24449, QM 9123

 **References**

References and other information relating to this product are available online at 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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product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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