



## Product Sheet

# *Trichoderma reesei* (ATCC® 13631™)

### 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: *Trichoderma reesei* (ATCC® 13631™)

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:** QM 6a [CBS 383.78, IMI 192654, IMI 45548, T.V. B117]

**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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

### Growth Conditions

**Temperature:** 24°C to 26°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. The sign of viability is noticeable typically after 2-4 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](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  
GGTCTCCGTTGGTGAACAGCGGAGGGATCATTACCGAGTTTACAACCTCCCAAACCCCAATGTGAACG  
TTACCAATCTGTTGCCTCGGCGGGATTCTCTGCCCGGGCGCGTCCGAGCCCGGATCCCATGGCGCCC  
GCCGGAGGACCAACTCAAACCTCTTTTCTCTCCGTCGCGGCTCCGTCGCGGCTCTGTTTTACCTTTGCT  
CTGAGCCTTTCTCGGCGACCTTAGCGGGGCTCTCGAAAATGAATCAAACCTTCAACAACGGATCTCTT  
GGTTCTGGCATCGATGAAGAACGACGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAAT  
CATCGAATCTTTGAACGCACATTGCGCCCGCCAGTATTCTGGCGGGCATGCCTGTCCGAGCGTCATTT  
AACCTCGAACCCCTCCGGGGGTGCGCGTTGGGATCGGCCCTCACCGGGCCGCCCGGAAATACA  
GTGGCGTCTCGCCGACGCTCTCTCTCGCAGTAGTTTGCACACTCGCACCGGGAGCGCGCGCGGCC  
ACAGCCGTAACACCCCAAACCTCTGAAATGTTGACCTCGGATCAGGTAGGAATACCCGCTGAACTTA  
AGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAAC  
AGCTCAAATTTGAAATCTGGCCCTTTTCGGGTCGAGTTGTAATTTGTAGAGGATGCTTTTGGCAAGGCG  
CCGCCCGAGTTCCCTGGAACGGGACGCCACAGAGGGTGAGAGCCCGTCTGGCTGGCCCGCGAGCCT  
CTGTAAGACTCTTCGACGAGTCGAGTAGTTTGGGAATGCTGCTCAAAATGGGAGGTATATGCTTCTA  
AAGCTAAATATTGGCCAGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAAGATGAAAAGCACCTTG  
AAAAGAGGGTTAAATAGTACGTGAAATGTTGAAAGGGAAGCGCTTGTGACCAGACTTGGCGCGGCC  
GGATCATCCGGGTTCTCCCGGTGCACTTCGCCGTGCCAGGCCAGCATCAGTTCTGCGGGGGAA



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AAAGGCTTCGGAACGTGGCTCCCCTGGGAGTGTATAGCCCGTTGCATAATACCCTGCGGTGGACTG  
AGGACCGCGCATCTGCAAGGATGCTGGCGTAATGGTACCAGCGAC

calmodulin gene

TCTTTGTGAGTTTTTTGAACGTCCTTTACTGCGCAACCCGGTAGGGGGTGTTTTCAGGGTGTGACC  
GAGCTGCTCTACAGGACAAGGACGGCGATGGTACGTGATGGCGAGTGACCGACAACACACCTATTG  
CCCTCTCGACGAAGCCGACCGAAGCACTTTGTGCCGATCGATCACTCTATCGTCTGACTCGAATCATGA  
TACATGGACAAGAACTGACAGGCTTGACCTCGTAGGCCAGATCACCACCAAGGAGTTGGGCACCGT  
GATGCGCTCTCTCGGCCAGAACCCTTCCGAGTCGGAGCTGCAGGACATGATCAACGAGGTTGACGCCG  
ACAACAACGGCTCCATCGACTTCCCTGGTATGTGAATTGTTGGGAGATTGGTGGTTGAGGTATACGGG  
CTGACGTGGAGCGGTGAAGAATTTCTCA



### Isolation

Cotton duck shelter, Bougainville Island



### 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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