




Product Sheet


# *Trichophyton tonsurans* (ATCC® 10270™)

## 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  
**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: *Trichophyton tonsurans* (ATCC® 10270™)

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:** IOC 2415 [Leao 2415]

**Deposited Name:** *Trichophyton mentagrophytes* (Robin) Blanchard

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

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

## 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 2-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## 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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** Mycelium white, dense, velutinous. Hyphae hyaline, guttulate

## 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  
GGTTTCCTAGGTGAACCTGCGGAAGGATCATTAAACGCGCAGGCCGGAGCCGGCCCCCAGGATAG  
GGCCAAACGTCCTCAGGGGTGAGCAGATGTGCGCCGCGCTACCGCCCCATTCTTGTCTACCTTACTC  
GGTTGCCTCGGCGGGCCGCGCTCTCCAGGAGAGCCGTTCCGGCAGCCTCTCTTTATAGCGGCTCAACG  
CTGGACCGCGCCCGCGGAGACAGACGCAAAAAAAAAATTCTTTCAGAAGAGCTGTCTAGTCTGAGCG



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TTAGCAAGCAAAAATCAGTTAAAACCTTCAACAACGGATCTCTTGGTTCGGCATCGATGAAGAACGC  
AGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCGGTGAATCATCGAATCTTTGAACGCACATTGC  
GCCCTTGGCATTCCGGGGGGCATGCCTGTTTCGAGCGTCATTTAGCCCTCAAGCCCGGCTTGTGTGA  
TGGACGACCGTCCGGCGCCCCGTCTCTGGGGTGCGGGACGCGCCGAAAAGCAGTGGCCAGGCCG  
CGATTCCGGCTTTCTAGGCGAATGGCAACAAACCAGCGCTCCAGGACCGGCCCTGGCCTCAAA  
ATCTGTTTTATACCTATCAGTTGACCTCGGATCAGGTAGGGATAC

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGAAAAGAAACCAACAGGGATTGCCAGTAACGGCGAGTGAAGCGGCAA  
GAGCTCAAATTTGAAATCTGGCCTCCCCGGGGGCCGAGTTGTAAATTTGCAGAGGATGTTTCGGGTGC  
GGCCGCGCTAAGTTCTTGAACAGGACGTGACAGAGGGTGAGAATCCCGTCTTGGCGGGCGGT  
CCGCGCCCGTGTGAAGTCTTTCGACGAGTGTGATTTGGGAATGCAGCTCTAAGCGGGTGGTAAA  
TTTCATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTATCGAAAGGTTAAAA  
GCACCTTGAAGGGAGTTAAACAGCACGTGAAATTTGAAAGGGAAGCGCTTTCGGCCAGACTCG  
GGGGCGGGTTCAGCGGGTCTCGTCCGCCGTATTCTCGTTTTCCCGGCCAGCATGTTTCGACG  
GCCGTCAAAGGCCCCCGAATGTGTCTCTCGGGACGCTTATAGCCGGGGTGAATGCGGCC  
GTCGGGACTGAGGAACCGCTCCGGCTCGGATGCTGGCGTAATGGCCGTAAGCGGC



Isolation

Tinea capitis



References

References and other information relating to this product are available online at [www.atcc.org](http://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](http://www.atcc.org).  
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