



Product Sheet

# *Trichophyton interdigitale* (ATCC® 9533™)

## 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 interdigitale* (ATCC® 9533™)

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:** 640 [Emmons 640, NIH 640, QM 248]

**Deposited Name:** *Trichophyton interdigitale* Priestley

**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 336: Potato dextrose agar (PDA)

ATCC® Medium 307: Cornmeal agar

## 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 to 3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 3 days on Emmons' modification of Sabouraud's agar at 25°C, colony is white, flat, dense, velutinous; reverse orange. Microconidia abundant, hyaline, tear-drop shaped, formed alongside the hyphae. Macroconidia cigar shaped, hyaline, smooth-walled, 2-3 septate.

## Notes

The ITS sequence comparison indicates that this strain is *Trichophyton interdigitale* (*Trichophyton mentagrophytes* var. *interdigitale*).

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  
GGTTTCCGTAGGTGAACCTGCGGAAGGATCATTAGCGCGCAGGCCGGAGGCTGGCCCCACGATAG  
GGCCAAACGTCCGTACAGGGGTGAGCAGATGTGCGCCGGCCGTACCCGCCCATCTTTGTCTACATACTC  
GGTTGCCCTCGCGGGCGCGCTCTCCAGGAGCCGTTCCGGCAGCCTCTCTTTAGTGGCTAACGCT  
GGACCGCGCCCGCCGAGGACAGACGCAAAAAAATCTTTTTCAGAAAGAGCTGTCAGTCTGAGCGTTAG  
CAAGCAAAAATCAGTTAAACTTTCAACAACGGATCTCTTGGTTCCGGCATCGATGAAGAACGCGAGCG  
AAATGCGATAAGTAATGTGAATTGAGAATTCGGTGAATCATCGAATCTTTGAACGCACATTGCGCCC  
CCTGGCATTCCGGGGGCGATGCCTGTTTCGAGCGTCATTTTCAGCCCTCAAGCCCGGCTTGTGTGATGGA  
CGACCGTCCGGCGCCCCCGTCTTTGGGGGTGCGGGACGCGCCGAAAAGCAGTGGCCAGGCCGCGAT  
TCCGGCTTCTAGGCGAATGGGCAACAAACCAGCGCCTCCAGGACCGGCCCGCCCTGGCCCTCAAATCT  
GTTTATACTTATCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene  
ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAA



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GAGCTCAAATTTGAAATCTGGCCTCCCCGGGGCCCGAGTTGTAATTTGCAGAGGATGCTTCGGGTG  
CGGCCCGCGTCTAAGTTCCCTTGGAAACAGGACGTCAGAGAGGGTGAGAAATCCCGTCTTGGGCGGGCGG  
TCCGCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAAGCGGGTGGTAA  
ATTTTCATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAAGGTTAAA  
AGCACCTTGAAGGGGAGTTAAACAGCACGTGAAATTTGAAAGGGAAGCGCTTGGCCAGACTC  
GGGGGCGGGGTTACGCGGGTGTCTGTCGCCCGTACTCCTCGTCTCCCGGGCCAGCATCAGTTTCGAC  
GGCCGGTCAAAGGCCCGGAATGTGTCTCTCGGGACGCTTATAGCCGGGGTGAATGCGGCC  
CGTCCGGACTGAGGAACGCGCTCCGGCTCGGATGCTGGCGTAATGGCCGAAGCGGC
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beta-tubulin (TUB2) gene

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CTAGCTTCCCCCTGTCCATCACTTCCCCTCTATTTGTGCCGAAAAACACGACACGGTCTGCACAGGCC  
AAGAAAAGGGGGGAGGCGAGGGCCACCACACGACCACGTCGCCAGCGTGAAGGGGACAGGCTTCGA  
GTTTCACAATTCGCATAGCGAGCTTCGAGCATCAGGCTAACGTGCATTTATCGTATAGGTCCATCTCC  
AAACCGGCCAATGTGAAGCTTTGATCGTCCCTGGTTTCAGTACCGGTTTGGATTAACAATTG  
TTCGACATTAGGGTAACCAAATTTGGTGTCTTCTGGTGAGCATTCATGCGTTGCAGCATAATTGTATA  
TTTCGTGTGAGTTGTTACTGACTTGGTTTACAGGCAAACATTGCTGGTGGAGCACGGTCTCGATGGATC  
CGGCCAGTGAGTATTCTGCAAGAAAAGTTCCGGTCTTGAGGGACTTGAACGTTGACAACTGGGATT  
TCTATAGCTACACCGGATCTTCTGACCTCCAATTGGAGCGCATGAATGTCTACTTCAACGAGGTGTGCA  
CGACCAAGACCCTCCCTTACGACGATACTAACTCATTGGAGGCAAAGGCCTCAAGCAAAAAATAC  
GTTCCCGTGGGTTCTTGTGATCTTGAGCCCGCGCTCTCGATGCTGTCCGCGCCGGTCTTTTGGTCA  
GCTCTTCCGCCCGATAACGTCGTCTTCGGTCAGTCTGGTCCGGAAACAATGG
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### Isolation

Clinical specimen - human, 1943



### 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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