



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



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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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.

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
GGCCAAACGTCAGGGGTGAGCAGATGTGCGCCGGCCGTACCGCCCAATCTTTGTCTACATACTC
GGTTGCCCTCGCGGGGCGCGCTCCTCCAGGAGCCGTTCCGGCAGCCTCTCTTTAGTGGCTAACGCT
GGACCGCGCCCGCGGAGGACAGACGCAAAAAAATCTTTTCCAGAAAGAGCTGTCAGTCTGAGCGTTAG
CAAGCAAAAATCAGTTAAACTTTCAACAACGGATCTCTTGGTTCCGGCATCGATGAAGAACGCGAGCG
AAATGCGATAAGTAATGTGAATTGAGAATTCGGTGAATCATCGAATCTTTGAACGCACATTGCGCCC
CCTGGCATTCCGGGGGCGATGCCTGTTCCGAGCGTCATTTCCAGCCCTCAAGCCCGGCTTGTGTGATGGA
CGACCGTCCGGCGCCCCCGTCTTTGGGGGTGCGGGACGCGCCCGAAAAGCAGTGGCCAGGCCGCGAT
TCCGGCTTCTAGGCGAATGGGCAACAAACCAGCGCCTCCAGGACCGGCCCGCCCTGGCCCTCAAATCT
GTTTATACTTATCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAA




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GAGCTCAAATTTGAAATCTGGCCTCCCCGGGGCCCGAGTTGTAATTTGCAGAGGATGCTTCGGGTG  
CGGCCCGCGTCTAAGTTCCCTTGGAAACAGGACGTCAGAGAGGGTGAGAAATCCCGTCTTGGGCGGGCGG  
TCCGCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAAGCGGGTGGTAA  
ATTTTCATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAAGGTTAAA  
AGCACCTTGAAGGGGAGTTAAACAGCACGTGAAATTTGAAAGGGAAGCGCTTGGCCAGACTC  
GGGGGCGGGGTTACAGCGGGTGTCTGTCGCCCGTACTCCTCGTCTCCCGGGCCAGCATCAGTTTCGAC  
GGCCGGTCAAAGGCCCGGAATGTGTCTCTCGGGACGCTTATAGCCGGGGTGAATGCGGCC  
CGTCCGGACTGAGGAACGCGCTCCGGCTCGGATGCTGGCGTAATGGCCGTAAGCGGC
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beta-tubulin (TUB2) gene

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CTAGCTTCCCCCTGTCCATCACTTCCCCTCTATTTGTGCCGAAAAACACGACACGGTCTGCACAGGCC  
AAGAAAAGGGGGGAGGCGAGGGCCACCACACGACCGTCCCAGCGTGAAGGGGACAGGCTTCGA  
GTTTCACAATTCGCATAGCGAGCTTCGAGCATCAGGCTAACGTGCATTTATCGTATAGGTCCATCTCC  
AAACCGGCCAATGTGAAGCTTTGATCGTCCCTGGTTGTTCTCAGTACCCGTTTGGTTAAACAATTG  
TTCGACATTAGGGTAACCAAATTTGGTGTCTTCTGGTGAGCATTCATGCGTTGCAGCATAATTGTATA  
TTTCGTGTGAGTTGTTACTGACTTGGTTTACAGGCAAACATTGCTGGTGAACGAGTCTCGATGGATC  
CGGCCAGTGAGTATTCTGCAAGAAAAGTTCCGGTCTTGAGGGACTTGAACGTTGACAACTGGGATT  
TCTATAGCTACACCGGATCTTCTGACCTCCAATTGGAGCGCATGAATGTCTACTTCAACGAGGTGTGCA  
CGACCAAGACCCTCCCTTCAGCAGCATACTAACTCATTGGAGGCAAAGGCCTCAAGCAAAAAATAC  
GTTCCCGTGGGTTCTTGTGATCTTGGAGCCCGCGCTCTCGATGCTGTCCGCGCCGGTCTTTTGGTCA  
GCTCTTCCGCCCGGATAACGTCGTCTTCGGTCACTGCTGGTCCGGAAACAATGG
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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.



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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