



Product Sheet

# *Trichophyton interdigitale* (ATCC® MYA-4439™)

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® MYA-4439™)

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:** MRL 1957

**Product Description:** An ampoule containing viable cells (may include spores and mycelium) 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 200: YM agar or YM broth

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

## 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.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 3-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 10 days on Emmons' medium colonies powdery to floccose, cream-coloured to yellowish-buff; reverse ochre to red-brown. Macroconidia sparse, 3-8-celled, clavate to cigar-shaped. Microconidia spherical, sessile, arranged in dense, grape-like clusters or alongside the hyphae.

## Notes

This organism is a CLSI control strain for antimicrobial susceptibility testing.

Additional information on this culture is 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  
GGCCAAACGTCCTCAGGGGTGAGCAGATGTGCGCCGGCCGTACCGCCCCATTCTTGTCTACATTA  
GGTTGCCTCGGCGGGCCGCGCTCCTCCAGGAGAGCCGTTCCGGCAGCCTCTCTTGTAGTGGCTAAACGCT  
GGACCGCGCCCGCGGAGGACAGACGCAAAAAATTTTTCAGAAAGAGCTGTGAGTCTGAGCGTTAG  
CAAGCAAAAATCAGTTAAACTTTCAACAACGGATCTCTTGGTTCCGGCAGCTGATGAAGAACCGCAGCG  
AAATGCGATAAGTAATGTGAATTCGAGAATTCGTAATCATCGAATCTTGAACGCACATTGCGCCC  
CCTGGCATTCCGGGGGCATGCCTGTTTCGAGCGTCATTTAGCCCTCAAGCCCGGCTTGTGTGATGGA  
CGACCGTCCGGCGCCCCGTCTTGGGGGTGCGGGACGCGCCGAAAAGCAGTGGCCAGGCCGCGAT  
TCCGGCTTCTAGGCGAATGGCAACAACAGCGCCTCCAGGACCGCCGCCCTGGCCCTCAAATCT  
GTTTATACTTATCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 28S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAAACCAAGGGATTGCCCCAGTAACGGCAGTGAAGCGGCAA  
GAGCTCAAATTTGAAATCTGGCCTCCCCCGGGGCCGAGTTGTAATTTGCAGAGGATGCTTCGGGTG  
CGGCCCGCTCTAAGTTCTTGGAAACAGGACGTCAGAGAGGGTGAGAATCCCGTCTTGGGCGGGCGG  
TCCGCGCCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTGGGAATGCAGCTCTAAGCGGGTGGTAA



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ATTTTCATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAAGTAGAGTGATCGAAAGGTTAAA
AGCACCTTGAAAAGGGGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCGGCCAGACTC
GGGGGCGGGGTTGAGCGGGTGTCTGTCGCCCGTGTATTCTCTGTCCTCCCGGGCCAGCATCAGTTTCGAC
GGCCGGTCAAAGGCCCGGAATGTGTCTCTCGGGACGTCTTAGCCGGGGTGAATGCGGCC
CGTCCGGACTGAGGAACGCGCTCCGGCTCGGATGCTGGCGTAATGGCCGTAAGCGGC
```

beta-tubulin (TUB2) gene

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CTAGCTTTCCCTGTCCATCACTTCCCTCTATTTGTGCCGAAAAACACGACAGGCTGCACAGGCC
AAGAAAGGGGGGAGGCGAGGGCCACCACACGACCACGTCCAGCGTGAAGGGGACAGGCTTCGA
GTTTCACAATTCTCGCATAGCGAGCTTCGAGCATCAGGCTAAGTGCATTTATCGTATAGGTCCATCTCC
AAACCGGCAATGTGTAAGCTTTGATCGTTCCCTGGTTCTCAGGTACCGTTTGAGTTAACAAATTG
TTCGACATTAGGGTAACCAAAATGGTGTCTTCTGGTGAGCATTATGCGTTGCAGCATAATTGTATA
TTTCGTGTGAGTTGTTACTGACTTGGTTTACAGGCAAACATTGCTGGTGAGCACGGTCTCGATGGATT
CGCCAGTGTAGTGATTGCAAGAAAAGTTCCGGTCTTGAGGGACTTGAACGTTGACAACTGGGAT
TCTATAGCTACACCGGATCTTCTGACCTCCAATTGGAGCGCATGAATGTCTACTTCAACGAGGTGTGCA
CGACCAAGACCCTTCCCTCAGCAGCATACTAACTATTGGAGGCAAAGGCCCTCAAGCAAAAAATAC
GTTCCCGTGCAGTTCTGTTGATCTTGTAGCCCGCGCTCTCGATGCTGTCCGCGCCGGTCTTTTGGTCA
GCTCTTCCGCCCGATAACGTCGTCTTGGTCTGAGTCTGGTGCCGAAACAATGG
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Isolation

human toenail, USA



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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