



Product Sheet

# *Malassezia restricta* (ATCC® MYA-4611™)

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: *Malassezia restricta* (ATCC® MYA-4611™)

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:** CBS 7877 [ATCC 96810, JCM 14890, RA 42.2C, NBRC 103918]

**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 2693: modified Dixon (mDixon)

ATCC® Medium 2737: Modified Leeming & Notman Agar (MLNA)

## Growth Conditions

**Temperature:** 30°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 50 µL (or any amount desired up to all) 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 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Lipophilic or lipid-dependent yeasts. Genome sequencing strain (The Procter & Gamble Company, USA). Opportunistic pathogen that can cause systematic infection in neonates and are associated with multiple human skin disorders.

If having trouble reviving this strain, try using liquid media with shaking; subculture at intervals of 2 weeks after recovering.

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 26S ribosomal RNA gene, partial sequence  
GGTTTCTGTAGGTGAACCTGCAGAAGGATCATTAGTGAAGATTTGGGCAGGCCATACGGACGCCAAA  
AAGTGTCCCTGGCCGCTACACCCACTATACATCCACAAACCCGTGTGCACTGTCTTGGAGAAAGGCTT  
CAGAGAAGTTTTTGTGGCCTCTTTGGGGTCTTTCTCGCTACAACTCGAATGGTTAGTATGAACGTG  
GAACCTGGTTGGACCGTCACTGGCCAACAACTATACACAACCTTCGACAACGGATCTCTGGTTCTCC  
CATCGATGAAGAACGCAGCGAAACGCGATAGGTAATGTGAATTGCAGAATCCCGTGAATCATCGAAT  
CTTTGAACGCACCTTGGCTCTATGGCAATCCGTAGAGCATGCCTGTTTGTGATGCCATGAAATCTCCCA  
CCCCAAGCGGTTTTATCATGAAACGGCTTGGCGGATGGGGTCTGGATGGGTGCCTCTGCCTGCGCTACC  
TAGCACAGGCTCGCCGAAATGCATGAGCGCCTTGAGACACTTTCATCCGCTCTCTGTTGGGAGGA  
GGCGGCCAAGCAGTGTTCCTCCTGGCATGGCATGATACGTCATTGTGATGTGCGCTAAAGGAGGAA  
TGTTTGGTTGTGTCTGCGTGTGCTTGAACCTGCCTCTGTGGCACATCCCAATTCACCTCTGCTCAA  
TCAGGTAGGATCACCCGCTGAACCTAAGCATATCAATAA

D1D2 region of the 26S ribosomal RNA gene

ATATCAATAAGCGGAGGAAAAGAACTAACAGGATCCCTAGTAACGGCGAGCGAAGCGGGAAG  
AGCTCAAATTTGAAAGCTGGCGTCTTCGGCGTCCGCTTGAATCTCGAGACGTGTTTTCCGTGCGGCTC



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TATGGACAAGTCCCTTGGAAACAGGGCATCGTAGAGGGTAAAAATCCCGTACTTGCCATGGAAGTACC
GTGCTTTGTGATACACGCTCCAAGAGTCGAGTAGTTTGGGATTGCTGCTCAAAGTGGGTGGTAGACTCC
ATCTAAAGCTAAATATCGGGGAGAGACCGATAGCGAAACAAGTACCGTGAGGGAAAGATGAAAAGCA
CTTTGGAAAGAGAGTTAAAAGTACGTGAAATTGTCGAAAGGGAAGCATTGAAGTCAGCCATGCTGC
TTGAGACTCAGCCTGGCTTTTGGCTTGGTGTATTTCTCGGTAGCAAGCCAGCATTGGTTTGTGTCGTCGGA
GAAGCGTATGGGGAATGTGGCATCCTCGGATGTGTTATAGCCCTGTGCAGGATACGACGACGTAGACC
AAGGAACGCAGTGTGCCCTCTGGCGGGTCTTCGGACACCTTCACACTTAGGATGCTGGCGTAATGGC
TTTAAGTGGC
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Skin of man, Bristol State, UK.



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



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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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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