



Product Sheet

# Arthroderma vanbreuseghemii (ATCC® 28146™)

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: *Arthroderma vanbreuseghemii* (ATCC® 28146™)

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Manassas, VA 20108 USA  
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Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** [CBS 642.73; RV 27961, NCPF 453, SA 187]

**Deposited Name:** *Arthroderma vanbreuseghemii* Takashio, teleomorph

**Product Description:** An ampoule containing viable cells 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

## 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 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 9 days on Emmons' at 25°C, mycelium white, velutinous, moderate to dense; reverse buff, becoming yellow with age. Hyphae hyaline, guttulate. Microconidia abundant, round or teardrop-shaped; macroconidia sparse, cigar-shaped.

## 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  
AGGATCATTAACGCGCAGGCGGAGGCTGGCCCCACGATAGGGCCAAACGTCCTCAGGGGTGAG  
CAGATGTGCGCCGGCCGTACCGCCCCATTCTTGTCTACCTTACTCGGTTGCCTCGGCGGCGCCGCTCTC  
TCAGGAGAGCCGTTCCGGCAGCCTCTCTTTAGTGGCTCAACGCTGGACCGCGCCCGCGGAGGACAGA  
CGCAAAAAAATCTTTT CAGAAGAGCTGT CAGTCTGAGCGTTAGCAAGCAAAAAATCAGTAAAACTTTC  
ACAACGGATCTCTTGGTTCCGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTG  
CAGAAATTCGTGAATCATCGAATCTTTGAACGCACATTGCGCCCCCTGGCATTCCGGGGGCATGCCTG  
TTCGAGCGTCATTTAGCCCCCAAGCCCGGCTTGTGTGATGGACGACCGTCCGGCGCCCCCGTCTTTG  
GGGGTGCGGGACGCGCCGAAAAGCAGTGGCCAGGCGCGATTCCGGCTTCTAGGGCAATGGGCA  
ACAAACCAGCGCTCCAGGACCGCGCCCTGGCCTCAAAATCTGTTTTATACTTATCAGGTTGACCTC  
GGATCAGGTAGGATACCCGCTGAACTTAAG

D1D2 region of the 28S ribosomal RNA gene  
CATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGCGGCAA  
GAGCTCAAATTTGAAATCTGGCCTCCCCCGGGGCGGAGTTGTAATTTGCAGAGGATGCTTCGGGTG  
CGGCCCGCGTCTAAGTTCCCTTGGAAACAGGACGTCAGAGAGGGTGAGAAATCCCGTCTTTGGGCGGCGG  
TCCGCGCCCGTGTGAAGCTCCTTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCTAAGCGGGTGGTAA  
ATTTTCATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGGTTAAA  
AGCACCTTGAAAAGGGAGTTAAACAGCACGTGAAATGTTGAAAGGGAAGCGCTTCGGCCAGACTC  
GGGGGCGGGTT CAGCGGGTGTCTCGTCCGCCGTGATTTCCTCTCCCGGGCCAGCATCAGTTTCGAC  
GGCCGGTCAAAGGCCCGGAATGTGTCTCTCGGGACGCTTATAGCCGGGGTGAATGCGGCC  
CGTCCGGACTGAGGAACGCGCTCCGGCTCGGATGCTGGCGTAATGGCCGTAAGCGGC

## Isolation




Product Sheet

## Arthroderma


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Monascospore isolate from ATCC 24953 X ATCC 24957.



### 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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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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