



Product Sheet

# *Thermomyces ibadanensis* (ATCC® 22716™)

Please read this **FIRST**



## 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: *Thermomyces ibadanensis* (ATCC® 22716™)

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  
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Or contact your local distributor

## Description

**Strain Designation:** CBS 281.67 [BDUN 381, IMI 96473]

**Deposited Name:** *Thermomyces ibadanensis* Apinis et Eggins

**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 350: Emerson YpSs agar

## Growth Conditions

**Temperature:** 37.0°C

## 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 **2530 °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 10 microliter (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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain. .

## Notes

This organism can grow 37-50 °C while most other fungi are unable to grow at such high temperatures. It also grows quick and sporulate in approx 4 days.

Additional, updated information on this product may be available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

ITS sequence includes the terminus of 18S rDNA, ITS1, 5.8SrDNA, ITS2, and the terminus of 28S rDNA.  
AGGCTCTACTGATCGAGGTCACCTTGGAGATTGACCTTCAGAGGCTATGGCCCCGGCCGGACCCCTCCT  
TGAGCGGTGACAGAGCCCCATACGCTCGAGGACCGGACGCGACCCCGCGCTGCCCTTCAGGCCCGT  
CCCCCCAAACGAGGGGACGGCGGCCAACACACAAGCCGTGCTTGAGGGTTCGCAATGACGCTCGG  
ACAGGCATGCCCCCGGAATACAGAGGGCGCAATGTGCGTTCAAAGATTGATGATTACGGAATTC  
TGCAATTCACATTACTTATCGCATTTTCGTCGCTTTCATCGATGCCGGAACCAAGAGATCCATTGTTG  
AAAGTTTTGAACGATTGCATTTTCGTCACACTCAGACAATCCTCGCATTACAAAAGCGTTACAGTGAGTG  
CCTCTGGCGGGCACGGGCCCGGGGACACCCGCGCCCGGGACGACCCCGGGCGGAACACCGG  
AGGAGTGGGCCCGCCAAAGCAACTAGGTGTGGTAGACACGGGTGGGAGATTGGGACCCGACTGG  
GTTCCCGCACTCGTAATGATCCTTCCGACAGGTTACCCTACGGAAGATTCCGAGTGGGGTAACCCAGT  
CGGGTCCAATCCACCCGTGTCTACCACACCTAGTGTGCTTGGCGGGCCACTTCCGTGTTGCGGGG  
GGGGTGTCCGGGGGGGGTGTGCCCGGGGCGCTGCCGACAGAGACTACGGGAACGTTTTGTGAATG  
CAGGATGTTTGAGGACGAATGCATCGTCAGACTTTACCAATGGATCTTGCCTCGCATCGAGAAGAGCA  
GGATGCCATAGTATGGTATGTAATCATGATCACACCTTTGACGCCATTGCCTCGGTATTCGGGGCTG  
CTGATCGACCTTGTGCACTACAGTGGGTGTGGTGGGACATATTATGAGCAGAGCTTGGAGACGACC  
TCGTCTCATGGGATAT

ATCC 22716 is the type strain of *Thermomyces ibadanensis* (see reference below). Its ITS region has identical sequence to that of many *Thermomyces lanuginosus* strains including ATCC 200065, the genome sequencing strain. Thus, the taxonomy of ATCC 22716 is not entirely clear. Further investigation of its taxonomic position is needed.

## Isolation

Stored oil palm kernels, Nigeria



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## References

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## Biosafety Level: 1

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.

## ATCC Warranty

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## Disclaimers

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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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