



Product Sheet

# *Ogataea polymorpha* (ATCC® 34438™)

## 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  
**1**

## 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: *Ogataea polymorpha* (ATCC® 34438™)

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Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
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## Description

**Strain Designation:** NRRL Y-5445 [CBS 4732, CCRC 20467, DSM 70277, IFO 1476, JCM 3621, MUCL 27761, NCYC 1457]

**Deposited Name:** *Hansenula polymorpha* de Morais et Maia, teleomorph

**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 200: YM agar or YM broth

## Growth Conditions

**Temperature:** 24°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 10 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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Type strain; degrades xylose D-xylose; produces acetone reductase; produces alcohol; dehydrogenase; produces alcohol oxidase; produces glycerol 2-dehydrogenase (NADP) dihydroxyacetone reductase; produces single-cell protein SCP; produces copper-containing amine oxidase; produces SCP from xylose; related products - genomic DNA (ATCC 34438D-5)

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

## DNA Sequence

SSU rDNA of ATCC 34438

```
AAAGATTAAGCCATGCATGTCTAAGTATAAGCAATTTATACAGTAACTGCGAATGGCTCATTAAAT
CAGTTATCGTTTATTTGATAGTTCCTTTACTACATGGATAACCGTGGTAATTCTAGAGCTAATACATGCTT
AAAGCCCCGACTTCTGGAAGGGGTGATTTATTAGATAAAAAATCAATGCCTTCGGGCTTTTTGATGAT
TCATAATAACTTTTCGAAGCTCATGGCCTTGCTGGAGCTGGTTCATTCAAATTTCTGCCATCAACTT
TCGATGGTAGGATAGTGGCTACCATGGTTTTACGGGTAACGGGGAATAAGGGTTCCGATTCGGGAGA
GGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGCGCGCAAATACCCAATCCTGAC
ACAGGGAGGTAGTGACAATATATAACGATACAGGGCCCTTTCCGGTCTTGTAAATGGAATGAGTACAA
TGTAATACCTTAACGAGGAACAATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATCCAGCTC
CAATAGCGTATATTAAGTTGTTGCAGTAAAAAGCTCGTAGTTGAACCTTGGGTCTGGTTAGCCGGTC
TGCCTTTTTGGCAGCTACTGGATTAACCGGGCTTTCTCTGCTAACCAACACTCTGTGTTGGCAA
ACCAGGACTTTTACTTTGAAAAATTAGAGTGTCAAAGCAGGCCCTTCTGCTCGAATATATTAGCATGGA
ATAATAGAATAGGACGTTATGGTTCTATTTTGTGGTTTCTAGGACCATCGTAATGATTAATAGGGACG
GTCGGGGGCATCAGTATTCAGTTGTCAGAGGTGAAATCTTGGATTTACTGAAGACTAACTACTGCGA
AAGCATTGCGCAAGGACGTTTTTCATTAATCAAGAACGAAAGTTAGGGGATCGAAGATGATCAGATAC
CGTCGTAGTCTTAACCATAAATATGCCGACTAGGGATCGGGTGGTGTCTTTTTTACCCACTCGGCA
CCTTACGAGAAATCAAAGTTTTTGGGTTCTGGGGGAGTATGGTCGCAAGGCTGAAACTTAAAGGAAT
TGACGGAAGGGCACCACCAGGAGTGGAGCCTGCGGCTTAATTTGACTCAACACGGGGAACTCACCA
```



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GGTCCAGACACAATAAGGATTGACAGATTGAGAGCTCTTTCTTGATTTTGTGGGTGGTGGTGCATGGCC
GTTCTTAGTTGGTGAGTGATTTGTCTGCTTAATTGCGATAACGAACGAGACCTTAACCTACTAAATAG
TGATATTGGCTTTTGTGATTTTCACTTCTTAGAGGGACTATCGGTTTCAAGCCGATGGAAGTTTGAGGC
ATAACAGGTCTGTGATGCCCTTAGACGTTCTGGGCCGCACGCGCTACACTGACGGAGCCAACGAG
CTCTATCCTTGACCGAGAGGTCCGGTAATCTTGTGAAACTCCGTCGTGGGGATAGAGCATTGCAA
TTATTGCTCTTCAACGAGGAATTCCTAGTAAGCGCAAGTCATCAGCTTGCCTTGATTACGTCCCTGCCCT
TTGTACACACCGCCGCTCGCTAGTACCGATTGAATGGCTTAGTGAGGCTTCAGGATTGGTTAGAGAA
GGGGGCAACTCCATCTTGAACCGAGAATCTAGTCAAACCTTGGTCATTAGAGGAACTAAA
```

## ITS of ATCC 34438

```
TTTCCGTAGGTGAACCTGCGGAAGGATCATTACAGTATTCTTCTAAGCTGGAGCTGCTGATCGACTGAA
CTGTTTGCCTGCGTGCTGAAATATTGCGTGCGCGGCGATGGTTTTTTGGTTGCAGTTCTACTCAAGGC
TTAGAAATCTCCTTACACACTTTGTTTTCTATTAGAGACAAATTTGCTTTGGCTAGCGGTGCTTAAGCG
CGGCATGGCTGGCCAGAGGTTTTAAACAAAACCTCATTTTCTGCTTTGCCATGTTGGGGAAGATTGAAAGT
TGTATTATGATTTTGTGAGTTATAAGAAGTTGCGTTTGCAGCTTTTCTAAACTTCAAACCTTTCAACAAC
GGATCTCTTGGTTCTCGCATCGATGAAGAACGCAGCGAAATGCGATACGTAATGTGAATTGCAGATTTT
CGTGAATCATTGAATCTTTGAACGCACATTGCGCCCTCTGGTATTCCAGAGGGCATGCCCTGTTTGAGCG
TCATTTCCCTCTCAAACCTCGGGTTTGGTATGGGCAACTCTCTTTTCTGAGAGTTGCTTGAATGA
ATTGGCATGAGTTTTTGATACGAACTTCAAGCTGTTTATTCAATGTATTAGTTTTATCCATCGTTGATTGA
CAACTGCAAGCTTCTTTCAAACCTTGGCTCTGCCCTTACAACTTAAATCATAAAGTTTGACCTCAAATCA
GGTAGGATTACCCGCTGAACTTAAGCATATCAAT
```

## D1/D2 region of LSU rDNA of ATCC 34438

```
ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCTTAGTAGCGGCGAGTGAAGCGGCAAG
AGCTCAAATTTGAAATCTGGTACCTTCGGTGCCCGAGTTGTAATTTGAGAAAGCTATCTTGAGGTTGG
CCTTTGTCTATGTTCTTGGAAACAGGACGTCATGGAGGGTGAGAAATCCCGTGTGATGAGGTGCCATTT
CCGTGTAAGATGCTTTGAAAGAGTGCAGTTGTTGGGAATGCAGCTCAAAGTGGGTGTAATTTCCAT
CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACTGTGAAGGAAAGATGAAAAGAACT
TTGAAAAGAGAGTGAAGAAAGTACGTGAAATGTTGAAAGGGAAGGGTATTTGATCAGACTTGGTATT
TAGTATCATCGCTCCTTGTGGGTGGTCTAGCTTTTACTGGCCAGCATCAGTTTTGGTGGCAAGA
TAATTGACAGTTGAATGTGGCTCCTCGGAGTGTATAGCTTCTGTTGATGTTGCCTACCGAGACTGAGGT
CTGCGGCTTTTGCCTAGGATGCTGCGTAATGATCCAATACCGCCGCT
```

## Isolation

Soil, Brazil

## References

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

## 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.

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## *Ogataea polymorpha* (ATCC® 34438™)

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of materials on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of such materials.


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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