



Product Sheet

# Candida parapolymorpha (ATCC® 26012™)

### 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: *Candida parapolymorpha* (ATCC® 26012™)

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:** DL-1 [NRRL Y-7560]

**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 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

### 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 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; produces 2-butanone alcohol dehydrogenase; produces formaldehyde; produces hydrogen peroxide; produces isopropanol dehydrogenase (NADP) secondary alcohol dehydrogenase; produces methyl ketones; transformation host; utilizes methanol; reduces 4-chloro-1-(4-fluorophenyl)butan-1-one; transformation host for expression of hirudin gene.

## DNA Sequence

SSU rDNA of ATCC 26012

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AAAGATTAAGCCATGCATGTCTAAGTATAAGCAATTTATACAGTAACTGCGAATGGCTCATTAAAT
CAGTTATCGTTTATTTGATAGTTCCTTTACTACATGGATAACCGTGGTAATTCTAGAGCTAATACATGCTT
AAAGCCCCGACTTCTGGAAGGGGTGTATTTATTAGATAAAAAATCAATGCCTTCGGGCTTTTTGATGAT
TCATAATAACTTTTTCGAAGCTCATGGCCTTGTGCTGGAGCTGGTTCATTCAAATTTCTGCCATCAACTT
TCGATGGTAGGATAGTGGCCTACCATGGTTTTACGGGTAACGGGGAATAAGGGTTTCGATTCGGGAGA
GGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGCGCGCAAAATTACCCAATCCTGAC
ACAGGGAGGTAGTGACAATATATAACGATACAGGGCCCTTTCGGGTCTTGTAAATGGAATGAGTACAA
TGTAATACCTTAACGAGGAACAATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGAATTCAGCTC
CAATAGCGTATATTAAGTTGTTGCAGTTAAAAAGCTCGTAGTTGAACCTTGGGTCTGGTTAGCCGGTC
TGCCTTTTTGGCAGCTACTGGATTTAACCAGGCTTTCCTTCTGGCTAACCAACACTCTGTGTTGGCAA
ACCAGGACTTTTACTTTGAAAAAATTAGAGTGTTCAAAGCAGGCCCTTTCCTCGAATATATTAGCATGGA
ATAATAGAATAGGACGTTATGGTTCTATTTTGTGGTTTCTAGGACCATCGTAATGATTAATAGGGACG
GTCGGGGGCATCAGTATTCAGTTGTCAGAGGTGAAATCTTGGATTTACTGAAGACTAACTACTGCGA
AAGCATTTGGCAAGGACGTTTTTCATTAATCAAGAACGAAAGTTAGGGGATCGAAGATGATCAGATAC
CGTCGTAGTCTTAACCATAAACTATGCCGACTAGGGATCGGGTGGTGTTCCTTTTTTGACCCACTCGGCA
CCTTACGAGAAATCAAAGTTTTTGGGTTCTGGGGGAGTATGGTCGAAGGCTGAAACTTAAAGGAAT
TGACGGAAGGGCACCACCAGGAGTGGAGCCTGCGGCTTAATTTGACTCAACACGGGGAACTCACCA

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GGTCCAGACACAATAAGGATTGACAGATTGAGAGCTCTTTCTTGATTTTGTGGGTGGTGGTGCATGGCC  
GTTCTTAGTTGGTGGAGTGATTTGCTGCTTAATTGCGATAACGAACGAGACCTTAACCTACTAAATAG  
TGATATTGGCTTTTGTGATTTTCACTTCTTAGAGGGACTATCGGTTTCAAGCCGATGGAAGTTTGAGGC  
AATAACAGGTCTGTGATGCCCTTAGACGTTCTGGGCCGCACGCGCTACACTGACGGAGCCAACGAG  
CTCTATCCTTGACCGAGAGGTCCGGTAATCTTGTGAAACTCCGTCGTGGGATAGAGCATTGCAA  
TTATTGCTTTCAACGAGGAATTCCTAGTAAGCGCAAGTCATCAGCTTGCCTTGATTACGTCCCTGCCCT  
TTGTACACACCGCCGCTGCTAGTACCGATTGAATGGCTTAGTGAGGCTTCAGGATTGGTTAGAGAA  
GGGGGCAACTCCATCTTGAACCGAGAATCTAGTCAAACCTTGGTCATTAGAGGAACTAAA

## ITS of ATCC 26012

TTTCCGTAGGTGAACCTGCGGAAGGATCATTACAGTATTCTTCTAAGCTGGAGCTGTTAATTGATTGAA  
CTGTTTGCCTGCGTGCTGAAACTGCGTGCGCGGTGATGGTTTTTTGGTTGCAGTTCTACTCAAGGC  
TTAGAAATCTCCTACACACTTTGTTTTCTATTAGAGACAAATTTGCTTTGCTAGCGGTGTTAAACG  
CGGCATGCCTGGCCAGAGGTTTTAACAAAACCTCATTTTCGCTTGCCCTCGTGGGAAGATTGAAAACG  
GTATTATTATTTGTCAGTTATAAGAAGTTGCGTTTTGCAGCTTTTCTAAACTTTAAAACCTTCAACAACG  
GATCTCTTGGTTCTCGCATCGATGAAGAACGACGAAATGCGATACGTAATGTGAATTGCAGATTTTC  
GTGAATCATTGAATCTTGAACGCACATTGCGCCCTCTGGTATTCCAGAGGGCATGCCTGTTTGAGCGT  
CATTCCCTCTCAAACCCCGGGTTTGGTATGGCAACTACTCTGCTGAGAGTTTCTTGAATGAAT  
TGCCATGAGTTTTGATACGAACCTCAGCTGTTTATTCAATGTATTAGTTTTATCCATCGTTGATTGACA  
ACTGCAAGCTTCTTCAAATTTGGCTCTGCCTTACAACCTTAAATCATAAAGTTTGACCTCAAATCAGG  
TAGGATTACCCGCTGAACTTAAGCATATCAAT

## D1/D2 region of LSU rDNA of ATCC 26012

ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCTTAGTAGCGGCGAGTGAAGCGGCAAG  
AGCTCAAATTTGAAATCTGGTACCTTCGGTGCCCGAGTTGTAATTTGAAGAAAGTAATCTTGAGGTGG  
CCTTTGCTATGTTCTTGAACAGGACGTCATGGAGGTGAGAAATCCCGTGTGATGAGGTGCCATCT  
CCGTGTAAGATGCTTTGAAAGAGTGCAGTTGTTGGGAATGCAGCTCAAAGTGGGTGTTAAATCCAT  
CTAAAGCTAAATTTGGCGAGAGACCGATAGCGAACAAGTACTGTGAAGGAAAGATGAAAAGAACT  
TTGAAAAGAGAGTGAAGAAAGTACGTGAAATGTTGAAAGGGAAGGGTATTTGATCAGACTTGGTATT  
TAGCTATCATCGCTCCTTGTGGGTGGTCTAGCTTTTACTGGCCAGCATCAGTTTTTGGTGGCAAGA  
TAATGACAGTTGAATGTGGCTCCTCGGAGTGTTATAGCTTCTGTTGATATTGCCCTACCGGACTGAGGT  
CTGCGCTTTTGCCTAGGATGCTGGCGTAATGATCCAATACGCCCGT

## Isolation

Soil, Massachusetts

## 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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# *Candida parapolymorpha* (ATCC® 26012™)

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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