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
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 parapsilosis (ATCC® 22019™)

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
ATCC® Medium 325: Malt extract agar (Blakeslee’s formula)
ATCC® Medium 28: Emmons’ modification of Sabouraud’s agar

Growth Conditions
Temperature: 30°C to 35°C
Atmosphere: Typical of Sabouraud’s agar

Recommended Procedure
For freeze-dried (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 overnight (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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Notes
Type strain of the species; used for assay of Itraconzaole, assay of ketoconazole, control strain for identification, degrades hydroxybenzoate, degrades phenol, produces (S)-1,3-butanediol dehydrogenase produces lipase, quality control, and susceptibility testing.

Quality control strain for bioMerieux VITEK 2 products.

This organism is a CLSI control strain for antimicrobial susceptibility testing.

Additional, updated information on this product may be available on the ATCC® web site at 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 GTGTGGACCTGCGAAGGGATCCTAAGAAGAAATGCATTAGCAGCTGGCAGTTTTCTCTACAATGATGTTT TTCTTCTTTGAAACCTTTCTTTGTTAGGCTCTTCATATGCTGAGGACTCGCCAGAGATTAAACTCAACCAA ATTATCTTTAATGCAACCCGATTTAATAGTCCAAATCCCCCCAACGAGATCTCTGTGCTCTGACATCGA TGAAGAGCGCAGGAAATGCGATAAGATATGCGAATTGCAATATCGAATCTCGGGAATTTGGTCTTCTTGCA CGCACTGCAAGCCCTTTGATTTACCAAAAGGGCAGTGCCTTTGTTGAGCGTATTTCCTCTCCACACCTGCGG GTTCTGCT GCCAAGCAGGCTGCTTTGCTGAAGAAAGGCGGAGTATAAACGATGGTAGACGTTTCCCAACTGATTAACTACCCAAATGGAGGACTACCGGCT GAACCTAAAGCGATCATCAG

D1D2 region of the 26S ribosomal RNA gene
CATACATAAGCGGAGGAAAAGAACCAACACAGGATTGTCCTTTAGTAGCGCGTAGAAGCGGCGCAA AAGCTCAATAGGAAACTGCGACCTTTCAAGGTCGGAACTGTTGGAATGAAAGAGTACATTTGGCTGCGT GCCATCTGGTATTGTGTGGACGAGTCAGACAGGGTAGAGAACATCCGTCGATAGAT GTCCCA GACCTATGTAAAGGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCC

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org
800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org
Or contact your local distributor
**Isolation**

Case of sprue, Puerto Rico

**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.

**ATCC Warranty**

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**

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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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