



Yarrowia lipolytica (Wickerham et al.) van der Walt et von Arx

20460™

Description

An ampoule containing viable cells (may include spores and mycelia) suspended in cryoprotectant.

Strain designation: IFP29 [CBS 7504, W29, CLIB 89]

Deposited As: *Endomycopsis lipolytica* Wickerham et al.

Type strain: No

Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

Patent number:

3,997,399

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Mating type: A

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

Intended Use

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This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submerged in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

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Medium:

ATCC Medium 200: YM agar or YM broth

ATCC Medium 1245: YEPD

ATCC Medium 28: Emmons' modification of Sabouraud's agar/broth

Temperature: 20-25°C

Atmosphere: Aerobic

Handling Procedures

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 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Morphology: After 5 days on YM media colonies butyrous to mycelial and tannish-white in color. Cells are spheroidal, ellipsoidal to elongate and single, in pairs or small clusters. Pseudohyphae and true hyphae are usually present.

Notes

Deposited as *Endomycopsis lipolytica* Wickerham et al.

Produces citric acid citrate and isocitric acid.

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Genome sequencing strain (Genolevures Consortium, France).

Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Yarrowia lipolytica* (Wickerham et al.) van der Walt et von Arx (ATCC 20460)

References

References and other information relating to this material are available at www.atcc.org.

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