



# *Kluyveromyces marxianus* (EC Hansen) van der Walt

22295™

## Description

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

**Strain designation:** CBS 4857 [15, ATCC 56495, CCRC 20330, NRRL Y-8277, UCD 71-14]

**Deposited As:** *Kluyveromyces cicerisporus* van der Walt et al.

**Type strain:** Yes; type strain of *Kluyveromyces cicerisporus*

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## Intended Use

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.

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## BSL 2

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 submersed 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 submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

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

ATCC Medium 200: YM agar or YM broth

ATCC Medium 1245: YEPD

**Temperature:** 24-26°C

**Atmosphere:** Aerobic

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## 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 3 days on YM agar at 25°C, the cells are globose, ellipsoidal to cylindrical, 2-6 x 3-11 µm, and occur singly, in pairs or in short chains. Growth is butyrous, glossy, cream colored to brown, rarely pinkish due to pulcherrimin production.

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## Notes

Type strain of *Kluyveromyces cicerisporus*; produces ethanol from Jerusalem artichokes. Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Kluyveromyces marxianus* (EC Hansen) van der Walt (ATCC 22295)

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## References

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

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***Kluyveromyces marxianus* (EC Hansen) van der Walt**  
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Product Sheet

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