Prototheca zopfii Kruger

16532™

Description

Strain designation: PR-30 [UTEX 1438]
Deposited As: *Prototheca zopfii* Kruger
Type strain: No

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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.

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 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.

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

Medium:
ATCC Medium 28: Emmons' modification of Sabouraud's agar/broth
Instructions for complete medium: ATCC Medium 28
Temperature: 20-25°C
Culture system: Axenic

Handling Procedures

Handling of Freeze-Dried Vial

This culture is shipped as a freeze-dried preparation.

1. To rehydrate the vial, aseptically add 0.5 ml of distilled water and rehydrate the pellet.
2. After rehydration, aseptically transfer contents to a screw-capped borosilicate test tube containing a slant of ATCC Medium 28 or distribute over the surface

of an agar plate of ATCC medium 28.

3. If a test tube culture has been established, incubate upright at 20-25°C with the cap screwed on loosely.
4. If a plate culture has been established, wrap the plate with parafilm and incubate inverted at 20-25°C.

Culture maintenance:

1. For a slant culture, transfer cells with an inoculating loop to a tube of fresh agar slant from a growing culture at or near peak density.
2. For a plate culture, transfer cells with an inoculating loop to a fresh agar plate a growing culture at or near peak density.
3. Incubate as described in steps 3 or 4 above under the heading, establishing a culture from a freeze-dried vial.

Cryopreservation:

1. Harvest cells from a culture which is at or near peak density by adding 3.0 ml fresh ATCC medium 28 broth to the slant and washing cells into suspension.
2. Adjust the concentration of cells to 4 x 10^6/ml with fresh broth medium, then dilute to half this concentration by adding an equal amount of a 20% (v/v) sterile DMSO solution in fresh ATCC medium 28 broth.
3. Dispense in 0.5 ml aliquots into 1.0 - 2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation). The time from mixing of the cell preparation and the methanol solution, before the cooling cycle begins, should be no greater than 15 min.
4. Place vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. If freezing unit can compensate for the heat of fusion, maintain rate at -1 C/min through heat of fusion. At -40°C plunge ampules into liquid nitrogen. Alternatively, place the vials in a Nalgene 1°C freezing apparatus. Place the apparatus at -80°C for 1.5 to 2 hours and then plunge ampules into liquid nitrogen. (The cooling rate in this apparatus is approximately -1°C/min.)
5. The frozen preparations should be stored in either the vapor or liquid phase of a nitrogen refrigerator. Frozen preparations stored below -130°C are stabile indefinitely. Those stored at temperatures above -130°C are progressively less stabile as the storage temperature is elevated. Vials can be stored between -80 and -70°C for no longer than one week.
6. To establish a culture from the frozen state place an ampule in a water bath set at 35°C. Immerse the vial to a level just above the surface of the frozen material. Do not agitate the vial.

7. Immediately after thawing, do not leave in the water bath, aseptically remove the contents of the ampule and add to a fresh slant of ATCC medium 28 or the surface of an agar plate of ATCC medium 28.
8. Maintain as described above.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Prototheca zopfii* Kruger (ATCC 16532)

References

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

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