Rhodopseudomonas palustris (Molisch) van Niel

BAA-1124™

Description

Strain designation: BisB18
Deposited As: *Rhodopseudomonas palustris* (Molisch) van Niel
Type strain: No

Storage Conditions

Product format: Frozen

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 2657: PMSY Medium
Temperature: 26-30°C
Atmosphere: Anaerobic under light intensity of 1500 lux; Aerobic in the dark
Incubation: Anaerobic under light intensity of 1500 lux; Aerobic on nutrient agar in the dark

Handling Procedures

1. Put 6 to 8 ml of ATCC® medium #2657 into a 13x100 mm screw cap test tube (small). Add 3.0% cysteine M (3.0% stock concentration; 0.1 0.2 ml for each 5 to 10 ml of medium) and then fill the test tube to capacity with additional medium #2497. Seal the test tube with a screw cap.

2. Let the tube sit at room temperature at least one hour before inoculating it with the culture.

3. Allow the frozen vial to thaw at room temperature. Remove 0.5 ml of broth and then transfer the entire aliquot into the screw cap test tube and close tightly. Inoculate a plate of nutrient agar.

4. Incubate the culture at 26-30ºC under light (approximately 1500 lux). The culture should be 6 to 12 inches from the light source.

Notes

After one to three weeks, growth is evident by turbidity and deep reddish pigmentation throughout the broth. When examined microscopically, the cells appear as rods occurring singly and in pairs. Cells are motile. Once growth has been detected, the culture should be transferred to fresh broth. Subsequent growth should be detected within 72 to 96 hours. Good growth has been obtained on nutrient agar and may be the best way to initially recover this culture. Once growth has been obtained on nutrient agar a loop-full of cells can be placed in a small test tube containing reduced medium (#2657); phototrophic growth can take up to 3 weeks to be detected.

We suggest adding the reducing agent to the medium at least one hour before the medium is to be inoculated.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Rhodopseudomonas palustris* (Molisch) van Niel (ATCC BAA-1124)

References

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

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