Rhodopseudomonas palustris (Molisch) van Niel

33872™

Description

Strain designation: R1
Deposited As: *Rhodopseudomonas rutila* Akiba et al.
Type strain: Yes; type strain of *Rhodopseudomonas rutila*

Storage Conditions

Product format: Freeze-dried

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 0550: R 8 A H medium
Temperature: 26°C
Atmosphere: Anaerobic

Handling Procedures

1. Put 6 to 8 ml of #550 broth into a 13x100 mm screw cap test tube (small). Add cysteine (3.0% stock concentration, 2 ml/100 ml medium) and then fill the test tube to capacity with additional #550. Seal the test tube with a screw cap.

2. Let the tube sit at room temperature for 30 minutes before inoculating it with the rehydrated culture.

3. Open the freezedried vial according to enclosed instructions.

4. Aseptically take 0.5 ml of the pre-reduced medium and rehydrate the pellet.

5. Transfer the rehydrated pellet back into the screw cap test tube and close tightly. (The test tube should be filled to capacity). One or two drops can be streaked out onto nutrient or brain heart infusion plates. This culture grows aerobically in the dark.

6. Incubate the culture at 26ºC under a tungsten lamp.

7. Once growth has been established (three to six days), the culture should be transferred to fresh broth. If a large inoculum is used (1020%) the medium does not need to be pre-reduced.

8. When examined microscopically, the cells are motile rods, in single and pairs.

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 33872)

References

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

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Revision

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