Rhodospirillum rubrum (Esmarch) Molisch

25852™

Description

Strain designation: 1e 5
Deposited As: *Rhodopseudomonas palustris* (Molisch) van Niel
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 0550: R 8 A H medium
Temperature: 30°C
Atmosphere: Anaerobic

Handling Procedures

1. Put 6 to 8 ml broth into a small screw cap test tube (13x100 mm). Add 3.0 % cysteine (stock concentration, 2 ml/100 ml medium) and then fill the test tube to capacity with additional #550 broth. Seal the test tub with a screw cap.
2. Open vial according to enclosed instructions.
3. From a single tube of #550 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette and use to rehydrate the entire pellet.

4. Aseptically transfer the rehydrated pellet back into the broth tube. Mix well.
5. Use several drops of this suspension to inoculate the test tube from step #1.
6. Incubate the culture at 30°C under a tungsten lamp.

Notes

After four to seven days, growth is evident by turbidity and deep red pigmentation throughout the broth. When examined microscopically, the cells appear as spiral-shaped rods, in singles and pairs that are motile. Once growth has been detected, the culture should be transferred to fresh broth. Subsequent growth should be detected within 48 to 72 hours.

This culture is tolerant to oxygen therefore strictly anoxic conditions are not required when the vial is thawed at room temperature.

This culture has not been tested for aerobic growth on non-selective media, but many strains of R. rubrum are known to grow under these conditions.

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.

Additional information on this culture is available on the ATCC web site www.atcc.org

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Rhodospirillum rubrum* (Esmarch) Molisch (ATCC 25852)

References

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

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