Rhodospirillum rubrum (Esmarch) Molisch

11170™

Description

Rhodospirillum rubrum strain NCIB 8255 is a whole-genome sequenced type strain. This phototroph is tolerant to oxygen, so strictly anoxic conditions are not required when the vial is thawed.

Strain designation: NCIB 8255 [ATH 1.1.1, S.1]
Deposited As: *Rhodospirillum rubrum* (Esmarch) Molisch
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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 112: Van Niel's yeast agar
ATCC Medium 18: Trypticase Soy Agar/Broth
Temperature: 26°C
Atmosphere: Anaerobic under a tungsten lamp; Aerobic

Handling Procedures

1. Put 6 to 8 mL of #112 broth into a 13 x 100 mm screw cap test tube (small). Add 3.0% cysteine (stock concentration, 2 mL/100 mL medium) and then fill the test tube to capacity with additional #112 broth. Seal the test tube with a

screw cap.
2. Let the tube sit at room temperature for 30 minutes before inoculating it with the culture.
3. Allow the frozen vial to thaw at room temperature. Transfer the entire contents of the thawed aliquot into the screw cap test tube and close tightly. (You may have to remove 0.5 mL first, but be sure the test tube is refilled to capacity).
4. Several drops of the culture suspension can be used to inoculate #18 agar plates. Incubate the plates aerobically or anaerobically at 26°C. Light is not required.
5. Incubate the broth culture at 26°C under a tungsten lamp.

Notes

After four to seven days, growth is evident by turbidity and deep red pigmentation throughout the broth. 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.

The culture will grow on non-selective media in the dark. Under these conditions, the strain produces colonies that start out colorless and transparent but become red and opaque over time.

Additional information on this culture is available on the ATCC® web site at 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 11170)

References

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

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Revision

This information on this document was last updated on 2025-10-14

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