



# *Rhodobacter capsulatus* (Molisch) Imhoff et al.

33303™

## Description

**Strain designation:** B10

**Deposited As:** *Rhodopseudomonas capsulatus* (Molisch) van Niel

**Type strain:** No

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## 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.

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## 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 submerged 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 submerged in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

ATCC Medium 1139: Defined medium for rhodospirillum rubrum

ATCC Medium 3: Nutrient agar or nutrient broth

ATCC Medium 44: Brain Heart Infusion Agar/Broth

ATCC Medium 18: Trypticase Soy Agar/Broth

**Temperature:** 30°C

**Atmosphere:** Anaerobic (#1139 under a tungsten lamp); Aerobic (#3, #18, or #44 agar plates in the dark)

**Incubation:** Anaerobic (#1139 under a tungsten lamp); Aerobic (#3, #18, or #44 agar plates in the dark)

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## Handling Procedures

33303

1. Open vial according to enclosed instructions.
2. This organism can tolerate brief exposure to oxygen, so it may be opened under aerobic conditions. Aseptically transfer 0.5 mL of medium #1139 to the vial and rehydrate the pellet. Transfer this suspension back into a single tube (filled to capacity to achieve anaerobic conditions) of #1139 broth. Seal the tube with a screw cap, and incubate at 30°C under a tungsten lamp.
3. For growth on agar, plate 0.1 mL of the culture on any non-selective media such as ATCC Medium #3 (Nutrient Agar), #18 (Trypticase Soy Agar), or #44 (Brain Heart Infusion Agar), and incubate aerobically in the dark at 30°C.
4. After four to seven days, growth should be evident as indicated by turbidity and a deep red pigmentation throughout the broth. When examined microscopically, the cells appear as 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.

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## Notes

Colonies on #3 agar may appear entire, smooth, glistening, convex, and pink in color. Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Rhodobacter capsulatus* (Molisch) Imhoff et al. (ATCC 33303)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Warranty

33303

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