



Product Sheet

# *Rhodospirillum rubrum* (ATCC® 11170™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Rhodospirillum rubrum* (ATCC® 11170™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** NCIB 8255 [ATH 1.1.1, S.1]

**Deposited Name:** *Rhodospirillum rubrum* (Esmarch) Molisch

**Product Description:** Type strain. Genome sequenced strain.

## Propagation

### Medium

ATCC® Medium 112: Van Niel's yeast agar

ATCC® Medium 18: Trypticase Soy Agar/Broth

### Growth Conditions

**Temperature:** 26°C

**Atmosphere:** Aerobic or anaerobic under a tungsten lamp

### Propagation Procedure

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. When examined microscopically, the cells appear as spiral shaped rods, in singles and chains. 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](http://www.atcc.org).

## References

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

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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## Disclaimers



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