ATCC

Product Sheet

Rhodobacter sphaeroides (ATCC® 21455™)

Please read this FIRST

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: *Rhodobacter sphaeroides* (ATCC® 21455™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: IFO 12203
Deposited Name: *Rhodopseudomonas spheroides* van Niel

Propagation

Medium
ATCC® Medium 112: Van Niel's yeast agar

Growth Conditions
Temperature: 30.0°C
Atmosphere: Anaerobic

Propagation Procedure
1. Put 6 to 8 ml of ATCC Medium #112 into a 13 x 100 mm screw cap test tube (small). Pre-reduce the medium by adding 3.0 % cysteine (stock concentration, 2 ml/100 ml medium) and then fill the test tube to capacity with ATCC Medium #112. 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. Aseptically take 0.5 ml of the pre-reduced medium and rehydrate the pellet.
4. Transfer the rehydrated pellet back into the screw cap test tube and close tightly. (The test tube should be filled to capacity).
5. Incubate the culture at 30ºC under a tungsten lamp.
6. 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.
7. When examined microscopically, the cells as rods that occur singly in pairs with rounded ends. The cells are motile.

Notes

This culture is tolerant to oxygen therefore strictly anoxic conditions are not required when rehydrating the freezedried pellet or transferring the organism.

When grown anaerobically in broth the culture is yellow -green in color.

This culture is able to grow aerobically on Nutrient Agar (ATCC Medium #3) in the dark. Colonies are rounded, moist, and entire, with clear edges and dark red centers.

References

References and other information relating to this product are available online at 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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been confirmed to be accurate.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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

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