



Product Sheet

Marichromatium purpuratum (ATCC® 700430™)

Please read this **FIRST**



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: *Marichromatium purpuratum* (ATCC® 700430™)

Description

Designation: 95CAR100a

Deposited Name: *Chromatium purpuratum* Imhoff and Truper

Propagation

Medium

ATCC® Medium 2112: Artificial marine medium for purple sulfur bacteria #4

Growth Conditions

Temperature: 28.0°C

Atmosphere: Anaerobic under light

Propagation Procedure

1. Put 6 to 8 ml of Medium #2112 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 Medium #2112. Seal the test tube with a screw cap.
2. Let the tube sit at room temperature for 30 minutes before inoculating. Five minutes prior to inoculating the tube of pre-reduced medium, let the liquid nitrogen vial thaw by placing it at room temperature.
3. Aseptically transfer 1.0 ml of the pre-reduced medium to a sterile test tube. Take the thawed liquid nitrogen vial and aseptically transfer the cells to the tube of pre-reduced medium, fill the tube to capacity with the 1.0 ml of medium that was previously transferred to the sterile test tube. Seal the tube and incubate at room temperature under a tungsten lamp.
4. 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.
5. When examined microscopically, the cells are fat some times long rods that occur singly and in pairs. The cells are motile.

Notes

This culture is tolerant to oxygen therefore strictly anoxic conditions are not required when thawing the liquid nitrogen vial or when transferring the organism.

When grown anaerobically in broth the culture is purple in color.

This culture is able to grow aerobically on agar (Nutrient) in the dark. Colonies are rounded, moist, 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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Marichromatium
***purpuratum* (ATCC®)**
700430™)

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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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