Marichromatium purpuratum (Imhoff and Truper) Imhoff et al.

700430™

Description

Strain designation: 95CAR100a
Deposited As: *Chromatium purpuratum* Imhoff and Truper
Type strain: No

Storage Conditions

Product format: Frozen

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.

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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 2112: Artificial marine medium for purple sulfur bacteria #4
Temperature: 28°C
Atmosphere: Anaerobic
Incubation: Under light

Handling Procedures

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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Marichromatium purpuratum* (Imhoff and Truper) Imhoff et al. (ATCC 700430)

References

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

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

Marichromatium purpuratum (Imhoff and Truper) Imhoff et al.

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US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor