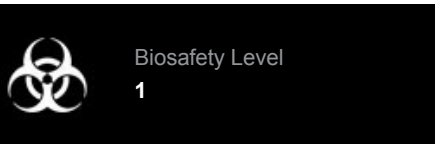
ATCC

Product Sheet

Ectothiorhodospira mobilis (ATCC® 49923™)

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: *Ectothiorhodospira mobilis* (ATCC® 49923™)

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: DSM 4180 [BN 9410, Oren EG-1]
Deposited Name: *Ectothiorhodospira marismortui* Oren et al.

Propagation

Medium
ATCC® Medium 2010: Chromatium medium (ATCC medium 37) with 3% NaCl

Growth Conditions
Temperature: 35.0°C
Atmosphere: Under a tungsten lamp

Propagation Procedure
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 #2010 to the vial and rehydrate the pellet. Transfer this suspension back into a single, small tube (filled to capacity) of #2010 broth. Plate 0.1 ml of the culture on any non-selective media and incubate aerobically in the dark at 26ºC. Seal the tube with a screw cap, and incubate at 26ºC (room temperature) under a tungsten lamp.
3. After four to seven days, growth should be evident as indicated by turbidity. When examined microscopically, the cells appear as vibroid rods, in singles and pairs, some small chains. Once growth has been detected, the culture should be transferred to fresh broth. Subsequent growth should be detected within 48 to 72 hours.
4. For best results the medium should be pre-reduced, this can best be accomplished by:
a) Steaming the medium then filling the test tube to capacity and sealing with a screw cap while the medium is still hot.
b) Adding 5 to 6 drops of cysteine (3% stock concentration) or sodium sulfide (1.5% stock concentration) to each 5 to 6 ml of medium used. After the reducing agent (cysteine or sodium sulfide) has been added fill the test tube to capacity and seal with a screw cap. Let the test tube sit at room temperature for 30 minutes before inoculating.
Note that once growth has been established, the culture can be transferred without pre-reducing the medium by using a 10 to 20% inoculation.

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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1

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

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