Allochromatium vinosum (Ehrenberg) Imhoff et al.

17899™

Description

Strain designation: D [5110, DSM 180, SMG 180]
Deposited As: *Chromatium vinosum* (Ehrenberg) Winogradsky
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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.

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 2189: Syntrophococcus medium
Temperature: 26°C
Atmosphere: Anaerobic under a tungsten lamp
Incubation: Under a tungsten lamp

Handling Procedures

1. Place liquid nitrogen vial at room temperature and while the vial contents are thawing put 6 to 8 ml of #2198 broth into a 13x100 mm screw cap test tube (small). Add 0.2 - 0.3 ml sodium sulfide solution (solution G) then add the thawed cell suspension. Fill the test tube to capacity with additional #2198 leaving a small air bubble for expansion. Seal the test tube with a screw cap

and incubate at 26°C under at tungsten lamp. The light should be on a 12 hour cycle (12 hours on 12 hours off).
2. Let the culture incubate for three to seven days before replenishing the sulfide. The sulfide solution is replenished by aseptically removing a volume of broth equal to the volume of the sodium sulfide to be added.
3. Use 10 to 20% of an actively growing culture to inoculate fresh tubes of medium.

Notes

After three to seven days, growth is evident by turbidity and a deep purple pigmentation throughout the broth. When examined microscopically, the cells appear as short fat rods, in singles and pairs, no motility has been detected. The culture should be fed sodium sulfide at least once a week. This culture is oxygen-tolerant therefore strictly anoxic conditions are not required when using a large inoculum.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Allochromatium vinosum* (Ehrenberg) Imhoff et al. (ATCC 17899)

References

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

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