Deltaproteobacteria sp.

BAA-1100™

Description

Strain designation: MLMS-1
Deposited As: Unidentified bacterium
Type strain: No

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 2633: Artificial Mono Lake medium
Temperature: 28°C
Atmosphere: 80% N_2, 20% CO_2

Handling Procedures

1. Open vial anaerobically according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 mL of recommended broth from a single test tube (5 to 6 mL) and rehydrate the entire vial contents.
3. Aseptically transfer this aliquot back into the broth tube. Additional tubes may be inoculated from this original tube. Streak two blood plates to check for purity;no growth should occur anaerobically or aerobically.
4. Incubate tubes under an anaerobic atmosphere at 28°C. Incubate one agar plate anaerobically and one aerobically at 28°C.

5. This organism will take several weeks to achieve good growth. Under optimal conditions the generation time is 32 hours. Growth is detected either by microscopic inspection or by measuring the reduction of arsenate. Cells are Gram-negative motile rods.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

It is possible to increase the cell density by adding an additional 4mM sodium sulfide and 10mM arsenate every 7 to 10 days. We recommend at least a 20% inoculum on all transfers. Sodium sulfide is potentially toxic and arsenate is a cancer-causing agent, take necessary precautions.
Additional information on this culture is available on the ATCC® web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Deltaproteobacteria sp. (ATCC BAA-1100)

References

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

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Contact Information

ATCC
10801 University Boulevard

Deltaproteobacteria sp.
BAA-1100

Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor