



Megasphaera elsdenii (Gutierrez et al.) Rogosa

25940™

Description

Megasphaera elsdenii strain BE2-2083 is a bacterial type strain that was isolated from the rumen of a sheep.

Strain designation: BE2-2083

Deposited As: *Megasphaera elsdenii* (Gutierrez et al.) Rogosa

Type strain: Yes

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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 2107: Modified Reinforced Clostridial

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Temperature: 37°C

Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 mL of #2107 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 with 0.5 mL each from the suspension. A slant of #2107 may also be inoculated with 0.2 mL. Streak several blood plates to check for colonial morphology and purity.

4. Incubate tubes under an anaerobic atmosphere at 37°C. Incubate one agar plate anaerobically for colony formation, and one aerobically for aerobic contamination check.
5. After one or two days, growth should be evident by turbidity that settles to the bottom of the test tube. Once growth has been established, the culture should be transferred to fresh broth every 48 hours.
6. This culture is sensitive to oxygen when initially rehydrated, therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth, it will remain viable for up to 1 week if stored at 4°C under anaerobic conditions.

ANAEROBIC CONDITIONS:

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

- Use of an anaerobic gas chamber.
- 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.
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

Anaerobe Systems Brucella Blood plate (AS-111 or AS-141) can be used to analyze colony morphology and purity.

Always use freshly prepared anaerobic medium. If there is any question about the anaerobic condition of the medium, it can be reduced with the addition of 1.5% cysteine (2.0 mL per 100 mL of medium).

Other commonly used reducing agents are sodium sulfide, cysteine, dithiothreitol,

and titanium citrate. Cysteine is the reducing agent of choice since it does not cause the ferrous ammonium sulfate to precipitate.

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: *Megasphaera elsdenii* (Gutierrez et al.) Rogosa (ATCC 25940)

References

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

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