Clostridium methylpentosum Himelbloom and Canale-Parola

43829™

Description

Clostridium methylpentosum strain R2 is an anaerobic bacterial type strain that was isolated from feces.

Strain designation: R2
Deposited As: *Clostridium methylpentosum* Himelbloom and Canale-Parola
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:
Anaerobe Systems Brucella Blood Agar Plates (BRU) (AS-111 or AS-141)
Anaerobe Systems PY Rhamnose (AS-827)
ATCC Medium 1490: Modified chopped meat medium
ATCC Medium 9092: 1M Rhamnose Solution
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

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1. Open vial.
2. Under anaerobic conditions, withdraw 0.5 mL of the recommended broth from a single test tube (5 to 6 mL) and rehydrate the entire vial contents.
3. Transfer the suspension back into the tube of broth. Inoculate a Brucella blood agar plate with 0.1mL of culture to check colony morphology. Inoculate a blood plate with 0.1 mL of culture to check for purity.
4. Seal the test tube with a rubber stopper and incubate anaerobically at 37°C. Incubate the Brucella agar plate anaerobically and the blood plate aerobically as a purity check.
5. In 24 hours, growth should be evident by turbidity in the broth. Growth should be observed on agar plates after 1 to 6 days of incubation..

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 connected 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

Add 0.1 mL of ATCC Medium #9092 to every tube containing 5 mL of ATCC Medium #1490.

PY Rhamnose from Anaerobic Systems (AS-827) may also be used to grow this strain. Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded

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The cells have a very unique morphology that makes it easy to identify this culture. The cells look like springs when viewed from the side and like packets of cocci when viewed from the top. On Brucella agar plates, colonies are small, circular, glistening, and low convex. This strain requires rhamnose for growth.
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: *Clostridium methylpentosum* Himelbloom and Canale-Parola (ATCC 43829)

References

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

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