Moorella thermoacetica (Fontaine et al.) Collins et al.

35608™

Description

Strain designation: Fontaine [DSM 521]
Deposited As: *Clostridium thermoaceticum* Fontaine et al.
Type strain: Yes

Storage Conditions

Product format: Freeze-dried

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 1190: Thermoanaerobacter ethanolicus medium
Temperature: 60°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.

2. Under anaerobic conditions, withdraw 0.5 ml of #1190 from a single test tube (5 to 6 ml) and rehydrate the 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 #1190 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 60ºC. Incubate one agar plate anaerobically for colony formation, and one aerobically for aerobic contamination check.

5. Within 48 hours, growth should be evident by turbidity in the broth and by large, circular, undulate colonies on the anaerobic agar surfaces. No growth should occur on agar plates incubated aerobically.

ANAEROBIC CONDITIONS:

· Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.

· All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen-free gas flowing through the system.

Notes

Growth should be obtained within 24 hours. Cells are rods that occur singly and in pairs.

On blood agar plates colonies are creamy, slightly raised, and entire.

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: *Moorella thermoacetica* (Fontaine et al.) Collins et al. (ATCC 35608)

References

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

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Revision

This information on this document was last updated on 2025-04-15

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