Clostridium acetobutylicum McCoy et al. emend. Keis et al.

3625™

Description

Strain designation: 462 [McCoy and McClung strain H]
Deposited As: *Clostridium acetobutylicum* McCoy et al. emend. Keis et al.
Type strain: No

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)
ATCC Medium 38: Beef liver medium for anaerobes
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Before inoculating the broth, invert the tube to resuspend particulates at the bottom of the tube. No reducing agents need to be added to the media before inoculation. Under anaerobic conditions, withdraw 0.5 ml of the #38 broth from a single tube (5 to 6 ml) and rehydrate the entire vial contents.

3. Aseptically transfer this aliquot back into the broth tube and inoculate a secondary broth with 0.1 ml of the cell suspension. Streak brucella blood agar plates for colony morphology and streak several sheep blood agar plates to check for purity.
4. Incubate tubes, brucella blood agar, and one sheep blood plate under anaerobic conditions at 37°C. Incubate second sheep blood agar plate aerobically at 37°C for aerobic contamination check.
5. Within 24 hours, growth in broth is evident by good turbidity.
6. Within 48 hours, growth on the brucella blood agar plates should be evident. The sheep blood agar plates should not exhibit growth anaerobically or 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.
- As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.

Notes

In 24 hours, growth is evident by heavy turbidity in the broth and heavy gas production. Growth on agar takes up to 48 hours to become evident. No growth should be observed on the sheep blood agar plate.

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 acetobutylicum* McCoy et al. emend. Keis et al. (ATCC

References

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

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Contact Information

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