Clostridium carboxidivorans Liou et al.

BAA-624™

Description

Type strain.
Strain designation: P7 [DSM 15243]
Deposited As: *Clostridium carboxidivorans* Liou et al.
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 2713: Wilkins-Chalgren Anaerobe Medium
ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood
Temperature: 37-40°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 mL of the appropriate medium 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. Streak onto a blood plate and incubate aerobically to check for purity.

4. Incubate tubes under an anaerobic atmosphere at 37-40°C.

ANAEROBIC CONDITIONS:

- Tubes of media are placed under a gassing cannula system connected 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. A 100% nitrogen or 80% nitrogen-20% carbon dioxide gas mixture is typically employed as the oxygen-free gas source.
- Resazurin is a commonly used redox indicator that is pink when the redox potential is above -50 mv., and colorless when the redox potential is below -110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
- To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate. Sodium sulfide solutions are normally made up at a stock concentration of 1.5% while cysteine solutions are normally made at a stock concentration of 3%. When reducing medium add one drop of reducing agent for each one or two mL of medium.

Notes

To obtain growth on agar, transfer the initial 24-48 hour growth in broth to solid media. Colonies on Brucella agars are flat, irregular, lobate, and spreading.

In 24-48 hours, growth is evident by turbidity. Culture should be stored in the dark at room temperature due to sensitivity to cold (refrigeration). No growth should occur on agar plates incubated aerobically.

Additional information on this culture is available on the ATCC® website 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 carboxidivorans* Liou et al. (ATCC BAA-624)

References

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

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