Pseudobutyrivibrio xylanivorans Kopecny et al.

BAA-455™

Description

Strain designation: Mz5 [DSM 14809]
Deposited As: *Pseudobutyrivibrio xylanivorans*
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

Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial according to enclosed instructions.

2. Under anaerobic conditions (*see below*), withdraw 0.5 ml of the recommended broth from a single tube (5 to 6 ml) and rehydrate the entire vial contents. The medium should be fresh and/or pre-reduced (*see anaerobic conditions below*).

3. Aseptically transfer this aliquot back into the broth tube. A slant may be inoculated with 0.1 ml of the cell suspension. Also, streak a blood agar plate to check for purity.

4. Incubate tubes and under anaerobic conditions at 37ºC. Incubate a plate under aerobic conditions at 37ºC to test for aerobic contamination.

5. Within 24 hours growth is evident by good turbidity. The culture may need to be examined by phase microscopy since the broth is often initially cloudy. There should be no growth on the aerobic plate.

Resolution: 1000X

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. 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.

Notes

Once growth has been established, the culture should be transferred every 1 or 2 days. The culture will remain viable for 1 week if stored at 4ºC under anaerobic conditions.

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: *Pseudobutyrivibrio xylanivorans* Kopecny et al. (ATCC BAA-455)

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 2021-05-19

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