Xylanibacter brevis (Bryant et al.) Hitch et al.

19188™

Description

Xylanibacter brevis strain GA 33 is a whole-genome sequenced bacterium that was isolated from a rumen. This product is cited to produce succinic acid.

Strain designation: GA 33 [JCM 9506]
Deposited As: *Bacteroides ruminicola* subsp. *brevis* Bryant et al.
Type strain: Yes; type strain of *Bacteroides ruminicola* subsp. *brevis*

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 2

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 1703: Chopped meat carbohydrates with rumen fluid
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Open vial.
2. Under anaerobic conditions, withdraw 0.5 ml of recommended broth from a single test tube (5 to 6 ml) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth tube. A slant and a pre-

reduced blood plate may also be inoculated with 0.1 ml each of the cell suspension. An aerobic blood plate may also be streaked to check for purity.

4. Incubate tubes and plate under anaerobic conditions at 37°C for 24 to 48 hours. Incubate blood plate aerobically at 37°C.
5. Within 48 to 72 hours, growth should be evident by turbidity in the broth. No growth should occur on the blood agar plate incubated aerobically.

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 hooked 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

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.

This organism requires rumen fluid for growth. It is also very sensitive to oxygen. All media must be completely reduced. Any oxygen exposure will cause the culture to become nonviable.

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: *Xylanibacter brevis* (Bryant et al.) Hitch et al. (ATCC 19188)

References

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

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