Thermocrinis minervae Caldwell et al.

BAA-1533™

Description

Strain designation: CR11
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

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 2804: MJTSO Medium
Temperature: 70°C
Atmosphere: 80% H_2, 20% CO_2 (5 psi)

Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and them flaming the top

2. If needed, exchange the gas in the test tube for 80% N_2 20% CO_2; do not over pressurize. Using a 1 ml syringe tipped with 22-gauge needle, add 0.1 ml 1 M thiosulfate to each tube of broth to be inoculated. If the balch tube contains 8 ? 10 ml of broth, add 3 ml air with a 1 ml syringe tipped with 22-gauge needle.

3. When the balch tube is ready to inoculate, thaw the frozen vial at room temperature.

4. For inoculation, using a 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Additional tubes of #2804 can be inoculated by transferring 0.5 ml of the primary broth using good technique. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C. Incubate the anaerobic tube at 70°C to 75°C.

5. Growth should be detected in the #2804 broth within 48 to 72 hours. There should be no growth detected on the aerobic plate.

Notes

Cells are rods that occur singly and are motile. Good growth should be detected within 48 to 72 hours.

This organism is reported to grow chemolithoautrophically with H_2 or thisulfate as the electron donors, and O_2 (up to 16%) as the electron acceptor. It is also reported to utilize yeast extract, mannose, glucose, maltose, succinate, peptone, Casamino acids, starch, citrate, and CO_2 as carbon sources.

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: *Thermocrinis minervae* Caldwell et al. (ATCC BAA-1533)

References

References and other information relating to this material are available at

www.atcc.org.

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