Desulfovibrio burkinensis Ouattara et al.

00846™

Description

- **Strain designation** DSM 6830 [HDv]
- **Deposited As** *Desulfovibrio burkinensis* Ouattara et al.
- **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

- **Medium**
  ATCC Medium 1249: Modified Baar's medium for sulfate reducers
- **Temperature** 37°C
- **Atmosphere** Anaerobic

Handling Procedures

- 1. Open vial according to enclosed instructions.

  2. Perform all steps under anaerobic conditions. (*see below*)

  3. Aseptically transfer 0.5 ml of ATCC Medium #1249 to the vial and rehydrate the freeze-dried pellet. Transfer the suspension back into the tube of broth. Inoculate a plate of non-selective medium with 0.1 of the culture.

  4. Seal the test tube with a rubber stopper and incubate anaerobically at 37^{o}C. Incubate the plate(s) aerobically as a purity check.

  5. After one or two days, growth should be evident as indicated by turbidity through out the broth. Once growth has been established, the culture should be transferred to fresh broth every 24 to 48 hours.

  6. This culture is very sensitive to oxygen, therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4^{o} C under anaerobic condition.

  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

Growth should be detected within 48 hours as turbidity throughout the broth.

The cells typically appear as comma-shaped rods that are motile.

Once growth has been establish, the culture should be transferred every 24 to 48 hours when maintained at 37ºC. The culture can be maintained at 4ºC for up to 1 week.

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: *Desulfovibrio burkinensis* Ouattara et al. (ATCC 700846)

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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