



***Dehalococcoides* sp.**

BAA-2100™

Description

Strain designation: BAV1

Deposited As: *Dehalococcoides* sp.

Type strain: No

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 2760: MOPS Buffered Medium for *Dehalococcoides* sp.

Temperature: 30°C

Atmosphere: 90% N₂, 10% CO₂

Handling Procedures

1. Prepare media in Balch tubes, with 20 mL of media allowing for 20% headspace in the tube. Add 5 uL cis-1,2-dichloroethene (cis-DCE) to each Balch tube.
2. Pre-reduce all media and supplies 24 hours in advance of opening vial and/or culturing using 3% cysteine and 80% N₂-10%CO₂-10% H₂ gas.
3. Open thawed vial according to enclosed instructions or visit www.atcc.org for instructions. It is highly recommended that all work be performed in an anaerobic chamber.
4. Under anaerobic conditions, aseptically transfer the entire contents of the vial

to a tube of #2760 broth prepared as described above. Establish growth in this primary tube before subculturing. Several drops from the primary broth tube can be used to inoculate a #260 plate to check purity.

5. Incubate in an anaerobic atmosphere at 30°C for 2-4 weeks. Incubate one agar plate aerobically at 37°C to check for contamination.
6. Once growth has been established, additional test tubes can be inoculated by transferring 1 mL from the primary broth tube to secondary broth tubes. Best practice dictates the use of pre-reduced media.

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

This culture is a strict anaerobe and all efforts should be made to maintain anaerobic conditions. It is strongly suggested that all transfers be performed in an anaerobic chamber (bug box). Growth can best be monitored using real time PCR; see attached protocol. Growth can also be monitored using a fluorescent DNA stain such as LIVE/DEAD BacLight or SYBR green.

This strain should be provided with the chlorinated electron acceptor cis-DCE every 2-4 weeks.

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: *Dehalococcoides* sp. (ATCC BAA-2100)

References

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

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