ATCC

Product Sheet

Geobacter lovleyi (ATCC® BAA-1151™)

Please read this FIRST

Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Geobacter lovleyi* (ATCC® BAA-1151™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Designation: SZ
Deposited Name: *Geobacter lovleyi*
Product Description: Type strain. Genome sequenced strain.

Propagation

Medium
ATCC® Medium 2635: *Desulfuromonas michiganenesis* Medium

Growth Conditions
Temperature: 26°C
Atmosphere: Anaerobic gas mixture, 80% N_2, 20% CO_2

Propagation Procedure

1. Sterilize the top of the Balch tube by spraying with 70% ethanol and then flaming
2. If needed, exchange the gas in the test tube for 80% N_2-20% CO_2. Supplement the media with 200 µL per 100 mL PCE and 100 µL per 10 mL of fumarate.
3. When the Balch tube is ready to inoculate, open the vial according to enclosed instructions.
4. For inoculation, use an anaerobic 1.0 mL syringe tipped with 22-gauge needle. Withdraw 0.5 mL of #2635 broth and use this to rehydrate the entire freeze-dried pellet. Immediately place the rehydrated vial under a gentle stream of sterile oxygen-free gas.
5. Using the same syringe, transfer the rehydrated cell suspension to a tube of # 2635 broth. Plate 0.1 mL of the inoculated culture onto a non-selective medium and incubate aerobically at 26°C. Use 0.1 mL of the inoculated culture to inoculate a nonselective aerobic broth and an additional tube of #2635 broth. Incubate the broth tubes at 26°C.
6. Growth should be detected in the #2635 broth within 2 weeks. There should be no growth detected on the aerobic plate or in the aerobic broth.

Notes

After two weeks of incubation, growth can be viewed as motile rods in a wet mount. The broth will not become turbid. An oil slick may form at the surface of the broth due to the addition of PCE.

This organism is capable of degrading a common groundwater contaminant by completely dechlorinating tetrachloroethene (PCE). Growth on PCE yields very low cell numbers, but when supplemented with 10 mM fumarate, cell yields are much higher. Growth on media lacking PCE may decrease the cells' ability to dechlorinate PCE.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Product Sheet

Geobacter lovleyi (ATCC® BAA-1151™)

Please read this FIRST

Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Geobacter lovleyi* (ATCC® BAA-1151™)

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [08/02]

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor