



Product Sheet

# *Geobacter pilgrimii* (ATCC® BAA-1542™)

Please read this **FIRST**



## 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 pilgrimii* (ATCC® BAA-1542™)

## Description

Designation: Ply1

## Propagation

### Medium

ATCC® Medium 2260: Freshwater medium for *Geobacter*

### Growth Conditions

**Temperature:** 26°C

**Atmosphere:** Anaerobic; 80% N<sub>2</sub>-20% CO<sub>2</sub>

### Propagation Procedure

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed exchange the gas in the test tube for 80% N<sub>2</sub> 20% CO<sub>2</sub>.
3. When reducing the media, add 0.1 ml (per 10 ml) of each sterile additions before inoculating. Let the medium sit at room temperature for 1 to 2 hours.
4. Allow the frozen vial to thaw under anaerobic conditions. Once thawed, take a gassed 1.0 ml syringe tipped with 22-gauge needle and withdraw the entire contents of the thawed vial and immediately transfer it to a Balch tube.
5. Plate 0.1 ml on a non-selective medium to check for aerobic and anaerobic contamination.
6. Incubate tubes at 26°C and one plate under an anaerobic atmosphere at 37°C. Incubate non-selective plate aerobically at 37°C to check for purity.
7. In 7 to 10 days, growth should be evident by the clearing of the broth. No growth should occur on the non-selective plate incubated aerobically or anaerobically.

### ANAEROBIC CONDITIONS:

- a. Balch tubes (available from Bellco Glass, Vineland, NJ) are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, in the latter case the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen free gas for addition of reducing agents or inoculation.
- b. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

## Notes

At inoculation, media is brown to orange in color, but after incubation, the media should be clear with black-brown precipitant. The culture has a very low cell density, with only 10 to 12 cells per view under a phase microscope. Cells are rods that are very motile and appear in both singles and pairs. No growth should occur on Tryptic soy agar with 5% Defibrinated Sheep blood.



Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in

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Manassas, VA 20108 USA  
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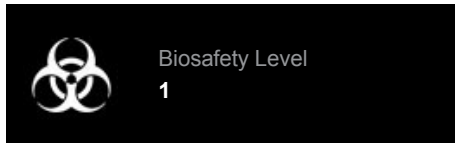
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the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

### **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.

### **Disclaimers**

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

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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