



# ***Spirochaeta americana***

## **Hoover et al.**

**BAA-392<sup>TM</sup>**

### **Description**

**Strain designation:** ASpG1 [DSM 14872]

**Deposited As:** *Spirochaeta americana*

**Type strain:** Yes

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### **Storage Conditions**

**Product format:** Frozen

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### **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.

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### **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

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

**Growth Conditions****Medium:**

ATCC Medium 2311: *Spirochaeta americana* medium

**Temperature:** 37°C**Atmosphere:** Anaerobic**Handling Procedures**

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flame the top.
2. If needed exchange the gas in the test tube for 80% N<sub>2</sub> 20% CO<sub>2</sub>.
3. If the medium is pink (*see discussion about resazurin*) add 2.0 ml of reducing agent (1.5% sodium sulfide, stock solution) per 100 ml of medium. Let the medium sit at room temperature for 10 to 20 minutes until the resazurin becomes colorless before

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inoculating.

4. When the Balch tube is ready to inoculate, thaw the frozen vial at room temperature under a gentle stream of oxygen free gas.
5. For inoculation, use a 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer it to the broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C. Use 0.1 ml of the inoculated culture to inoculate a nonselective aerobic broth. Incubate the inoculated tubes at 37°C.

6. Growth should be detected in the #2311 broth within 24 to 48 hours. There should be no growth detected on the aerobic plate or broth.

**ANAEROBIC CONDITIONS:**

- a. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
- 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.
- c. Syringes can be made anaerobic by one of two methods. 1. Displace the dead space in the syringe with a sterile

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**Notes**

Cells are shaped like a spirochete. This organism is motile and stains Gram-negative. Optimal pH is 9.5 with a pH range of 8.0 to 10.5.

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**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Spirochaeta americana* Hoover et al. (ATCC BAA-392)

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### **References**

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

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