



# ***Brockia lithotrophica***

**BAA-2164™**

## **Description**

**Strain designation:** Kam1851

**Type strain:** Yes

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## **Storage Conditions**

**Product format:** Freeze-dried

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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 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.

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## 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).

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## Growth Conditions

### Medium:

ATCC Medium 2777: *Brockia lithotrophica* Medium

**Temperature:** 60-65°C

**Atmosphere:** 80% H<sub>2</sub>, 20% CO<sub>2</sub>

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## Handling Procedures

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% H<sub>2</sub> 20% CO<sub>2</sub>.
3. If the medium is pink (see discussion about resazurin) add 0.1 ml reducing agent (1.5% Na<sub>2</sub>S·9H<sub>2</sub>O, stock solution) per each 8-10 ml of medium. Let the medium sit at room temperature for a minimum of 10 to 20 minutes - until the resazurin becomes colorless - before inoculating.
4. When the Balch tube is ready to inoculate, open the vial according to enclosed

instructions.

5. For inoculation, use a 1.0 ml syringe tipped with 22 gauge needle. Make the syringe anaerobic (see discussion below). Withdraw 0.5 ml of the reduced medium from the primary broth tube up into the syringe and use this too rehydrate the entire freeze-dried pellet while it is under a cannula with a gentle stream of O<sub>2</sub> free gas. Draw the rehydrated cells suspension up into the syringe and transfer the entire cell suspension into the primary tube of broth and incubate at 60 - 65°C. Secondary tube(s) can be inoculated by transferring 0.5 ml of the primary tube using an anaerobic syringe. Alternately all steps can be performed in an anaerobic chamber. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37°C. Inoculate a nonselective anaerobic and aerobic broth and incubate at 37°C

6. Growth should be detected in the #2777 broth within 2 to 3 days. There should be no growth detected on the aerobic plate. There should be no growth in the nonselective aerobic or anaerobic broth.

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## Notes

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org). Photomicrograph: 1000X

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Brockia lithotrophica* (ATCC BAA-2164)

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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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