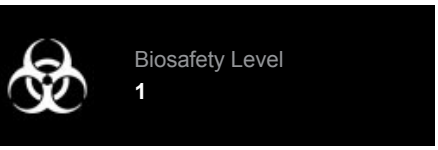
ATCC

Product Sheet

Brockia lithotrophica (ATCC® BAA-2164™)

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: *Brockia lithotrophica* (ATCC® BAA-2164™)

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: Kam1851

Propagation

Medium
ATCC® Medium 2777: Brockia liithotrophica Medium

Growth Conditions
Temperature: 60-65°C
Atmosphere: 80% H_2-20% CO_2

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% H_2 20% CO_2.
3. If the medium is pink (see discussion about resazurin) add 0.1 ml reducing agent (1.5% $Na_2S{\cdot}9H_2O$, 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_2 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 - 65ºC. 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 37ºC. Inoculate a nonselective anaerobic and aerobic broth and incubate at 37ºC
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.

Notes

Additional information on this culture is available on the ATCC® web site at www.atcc.org.Photomicrograph: 1000X

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.

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confirmed to be accurate.

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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

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