



Product Sheet

# *Cryptococcus gattii* (ATCC® MYA-4094™)

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: *Cryptococcus gattii* (ATCC® MYA-4094™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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Or contact your local distributor

## Description

**Strain Designation:** A1M R272

**Deposited Name:** *Cryptococcus bacillisporus*

**Antigenic Properties:** Serotype B

**Genotype:** VGIIb, AFLP6B

**Product Description:** An ampoule containing viable cells (may include spores and mycelia) suspended in cryoprotectant.

## Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

## Growth Conditions

**Temperature:** 25°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

**Frozen ampoules** packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampoule, place in a **25° to 30°C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer 50 µL (or any amount desired up to all) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 11 days on YEPD medium at 25°C, colony is cream-colored, smooth, mucoid. Cells globose, single or with bud.

## Notes

Causes cryptococcosis; the strain represents 'type strain' for one of the two genotypes causing outbreak on Vancouver Island; molecular type VGIIb; mating type alpha; serotype B; Genome sequencing in progress. Additional, updated information on this product may be available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence  
TTTCCGTAGGTGAACCTGCGGAAGGATCAGTAGAGAATACTGGACTTCGGTCCATTTATCTACCCATCT  
ACACCTGTGAACCTGTTTATGTGCTTCGGCACGTTTTACACAACTTCTAAATGTAATGAATGTAATCTTA  
TTATAACAATAATAAACTTTCAACAACGGATCTCTTGGCTTCCACATCGATGAAGAACGCAGCGAAA  
TGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAGTCTTTGAACGCAACTTGCGCCCTTTG  
GTATCCGAAGGGCATGCCTGTTGAGAGTCATGAAAATCTCAATCCCTCAGGTTTTATTACCTGTTGGA  
CTTGATTGTTGGGTGTTGCGCGACCTGCAAGGACGCCGGCTCGCCTTAATGTGTTAGTGGGAAGGT  
GATTACCTGTCAGCCCGCGTAATAAGTTTCGCTGGGCCATGGGGTAGTCTTCGGCTTGCTGATAACA  
ACCATCTCTTTTTGTTGACCTCAAATCAGGTAGGGCTACCCGCTGAACTTAAG

D1D2 region of the 28S ribosomal RNA gene  
TAACCTAAGCATATCAATAAGCGGAGGAAAAGAACTAACAAGGATTCCCTTAGTAACGGCGAGTGA  
ACCGGGAAGAGCTCAAATTTGAAATCTGGCGTCCTCCGGCGTCCGAGTTGTAATCTACAGAAACGTT  
TTCCGTGCTGGACCGTGTCTAAGTCCCTTGAATAGGGTATCAAAGAGGGTGACAATCCCGTACTTGAC



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ACGATCACCAGTGTCTGTGATACGTTTTCTACGAGTCGCGTACTTGGGAGTGTAGCGCAAATGGGT
GGTAAACTCCATCTAAAGCTAAATATTGGTGAAGACCGATAGCGAACAAAGTACCGTGAGGGAAAG
ATGAAAAGCACATTTGGAAAGAGAGTTAAACAGTACGTGAAATTGTTGAAAGGGAAACGATTGAAGTC
AGTCGTGTCTATTGGGTTTCAGCCAGTTCTGCTGGTGTATTCCCTTTAGACGGGTCAACATCAGTTCTGAT
CGGTGGATAAGGGCTGGAGGAATGTGGCACTTTCGGGGTGTGTTATAGCCTCCTGTCGCATACACTG
GTTGGGACTGAGGAATGCAGCTCGCCTTTATGGCCGGGGTTCGCCACGTTTCGAGCTTAGGATGTTGAC
AAAATGGCTTTAAACGAC
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Bronchial alveolar lavage, Ladysmith, Vancouver Island, B.C., Canada.



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



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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### **Disclaimers**

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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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