



Product Sheet

# *Phytophthora riparia* (ATCC® MYA-4882™)

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: *Phytophthora riparia* (ATCC® MYA-4882™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
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Or contact your local distributor

## Description

**Strain Designation:** VI 3-100B9F [CBS 132024]

### Product Description:

An ampoule containing mycelia-medium cubes 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 343: V8 juice agar

ATCC® Medium 1970: V8 rye agar

ATCC® Medium 321: Lima bean agar

ATCC® Medium 2232: YM medium with biotin 30 mcg/L and thiamine 600 mcg/L

## Growth Conditions

**Temperature:** 20°C to 22°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°C 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 2-3 agar cubes 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 3-4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

**Colony and Cell Morphology:** After 5 days on V8 juice medium at 20°C colonies are angular and petaloid with hyphae appressed. After 3 weeks no sporangia was observed. Oogonia absent.

## Notes

Type strain of the species; plant pathogen; this strain may require a primary growth period in a nutrient broth containing trace amount of biotin and thiamine (ATCC medium 2232) before it will grow on any subculture attempts.

Additional, updated information on this product may be available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

GenBank accession number: JQ745262

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.  
GATCATTACCACACCTAAAAAAGTTTCCACGTGAACCGTATCAACCCCTATAAATTTGGGGGCTTGCTCG  
GCGGCTGCGTGTGGCTGTAATGGGTCGGCGTGTGCTGCTGGGCGGGCTATCATGGGCGAGCG  
CTTGGGCTTCGGCTCGAGCTAGTAGCTTTCTTTAAACCCATTCTTTAAATACTGAACATACTGTGGG  
ACGAAAGTCTCTGCTTTAACTAGATAGCAACTTTTCAGCAGTGGATGCTAGGCTCGCACATCGATGAA  
GAACGCTGCGAACTGCGATACGTAATGCGAATTGCAAGGATTCAGTGAGTCATCGAAATTTGAACGCA  
TATTGCACTTCCGGTTAGTCTGGGAGTATGCCTGTATCAGTGTCCGTACATCAACCTTGGTTTTCTTCC  
TTCCGTGTAGTCGGTGGAGGATATGCCAGACGTGAAGTGTCTTGTGCGGGTCTTTCGAGTCTGCCGGT  
GAGTCTTTGAAATGTAAGTGAAGTGTACTCTCTTTGCTCCTTTCGAGTCTGCCGGT  
CTGCCGTGTGGCCAGTCCGGCACCCTTTGTTAGCTGTGGCGTTAATGGAGGAGTGTTCGATTCGCG  
GTATGGTTGGCTTCGGCTGAACAATCTGCTTATTGGGTGCTTTTCTGCTGCAGCGGTATGAAGTGGTGA  
ACCGTAGCTGTGTGGTGTCTGGCTTTTGAACCGGCTTTGCTTTGCGAAGTAGGGTGGCGGCTTCGGCTGT  
CGAGGGTTCGATCCATTTTGGGAAAGTTTGTGTGCGGCTTCGTGCTGCGCGCATCTCAATTGGACCT  
GATATCAGGCAAGATTACCCGCTGAACCTAAG

GenBank accession number: JQ745269

Large subunit ribosomal RNA gene, partial sequence.



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CATATCAATAAGCGGAGAAAAGAACTAACAAGGATCCCTAGTAACGGCGAGTGAAGCGGGAA  
GAGCTCAAGCTTAAATCTCCGTGCAAGTTTTGCGCGGCGAATTGTAGTCTATAGAGCGTGGTCAGC  
GTGGGCGCTTGGGGCAAGTTCCTTGGGAAGAGGACAGCATGGAGGGTGATACTCCCGTTCCATCCCTGAG  
TGGCTCGTGCGTACGACCCGTGTTCTTTGAGTCGCGTTGTTGGGAATGCAGCGCAAAGTAGGTGGTAA  
ATTCCATCTAAAGCTAAATATTGGTGCGAGACCGATAGCGAACAAAGTACCGTGAGGGAAAAGATGAAA  
AGAACTTTGAAAAGAGAGTTAAAGAGTACCTGAAACTGCTGAAAGGGAACCGAATCGTTTTCCAGTGT  
CTATAATCCGTGGCATATTTTCATTGGCGAGTGTGTGCGTGCCTGTGGCAGTGGCTTTTTGGCTG  
CGCTCGGTGCGTGTGTTGTGCGTCTTGTGCTGGTCCCTGTGCTGCGGTGGGACGTC AAGGTCAGTTCGT  
ATGCTGCGGAAATGGCTGCCGAGGAGGTAGGGCTTACGCTCTGCGTTTGTCTATTATATCTTGGTGGGA  
CGAGTCGTGCGGTTGGGACTGAGGTGCCTACAACGTGCTTTTGTAGTGGGTGTGTCTCCGTGTGCCG  
CGTGTGCGGATAGCTTGTATGCGTGTGTGGTTGTGTGGATTGATGCGTGCCTAACTTGTGCGCCGT  
CGGGACGTTGACGAAATGGAGCGATCCGAC

## Isolation

Forest streams, Oak Creek, Oregon, USA

## 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 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

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## Disclaimers

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