



Product Sheet

Phytophthora hydrogena (ATCC® MYA-4919™)

Please read this FIRST



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
1

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 hydrogena* (ATCC® MYA-4919™)

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

Strain Designation: 46A3

Genotype: Not available

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

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 50 µL (or 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 4 - 5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: Colonies on V8 juice agar at 20°C after 3-4 days are floccose, white and slightly dense. Oogonia present. Intercalary hyphal swelling of sporangiospore present.

Notes

Additional, updated information on this product may be available on the ATCC® web site at 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.
GTTTCGGTAGGTGAACCTGCGGAAGGATCATTACCACACCTAAAAACTTCCACGTGAAGTGTCTGTGA
TGTTGGGGGCTGCCCTTGGTGGTGGCTCCATCAAACGAGGCCCTGGGCTGCAAAGTCGAGGGTAGTAG
TTACTTGTGTAAACCCCTTTGTAATTTTCTGATCATACTGTGGGGACGAAAGTCTCTGCTTTAACTAG
ATAGCAACTTTCAGCAGTGGATGTCTAGGCTCGCACATCGATGAAGAACGCTGCGAACTGCGATACGT
AATGCGAATTGCAGGATTCAGTGAGTCATCGAAATTTGAACGCATATTGCACTTCCGGGTTATGCCTG
GGAGTATGCCTGTATCAGTGTCCGTACATCAACCTTGGCTTCCTTCCGTGTAGTCGGTGGCGGGAA
CGCGCAGACGTGAAGTGTCTTGGCTGGCGGTGAGTCCGCGGAGTCCCTTTGAAATGTAAGATACTGTTCTT
CTCTTGTGCGAAAAGCGTGCGTTGTGTGGTTGTGGAGGCTGCCGTTGTGGCCAGTCGCGCACTGATTT
CGTGCTGAGGCGTGTGGGGAGGAGCTCGATTCCGGTATGTTGGCTTCGGCTGAACCTTCTGCTTATGG
GGCTGTTTTCTGCTGTTCCGGCTTCCGGGGTCCGGTGAACCGTAGTCATGGTGGCTTGGCTTTGAACC
GCGCGGCTGTTGCGCGAAGTATGGTGCCTCCGCGGAGAGGACGACCTATTTGGGACGATTGTGCGGG
TTCGTGCTGCATCTCAATTGGACCTGATATCAGGCAAGATTACCCGCTGAACCTAAG

Large subunit ribosomal RNA gene, partial sequence.

CATATCAATAAGCGGAGGAAAAGAACTAACAAGGATCCCTAGTAACGCGAGTGAAGCGGGAA
GAGCTCAAGCTTAAATCTCTGCGCAAGTTTTGCGCGGCGAATTGTAGTCTATGAGGCGTGGTCAGC
GCGGGCGCTCGGGTAAGTTCCTTGAAGAGGACAGCATGGAGGGTGATACTCCGTTTCATCCCTGGG



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CCGCTTGC GCGTACGACCCGTTCTTCGAGTCGCGTTGTTGGGAATGCAGCGCAAAGTAGGTGGTAA
ATTCATCTAAAGCTAAATATTGGTGCGAGACCGATAGCGAACAGTACCGTGAGGGAAAGATGAAA
AGAAGTTTGAAAGAGAGTAAAGAGTACCTGAAACTGCTGAAAGGGAACCGAATCGTTTCCAGTGT
CTATAATCCGCGGCATATTTTCATCGTGGAGTGTGTGCGTGTGCGTTCGCGTTCGAGTGGCTTTTTGGCTG
CGCGGCGCGTGTGCTGTGCGTGCCTTGGTGGTCCCTGTGCTGCGGTGGGACGTCAAGGTCAGTTCGT
GTGCTGCGGGAATGGCTGCCGAGGAGGTAGGGCTTACGCTCCGCGTTTGTCTGTTATATCTTGGTGGGA
CGAGTCGTCGTGGTTGGGACTGAGGTGCCTACAACGTGCTTTTGTGAGTGTGTGTCTCTGTGTGCCCG
GTGTGCGGATAGCTTGCTATGCGTGTGCTGTCGTGCGCGGATGGGGCGTGTGTAACCTTTGTCGGCTT
CGGGACGTTGACGAAATGGAGCGATCCGAC

Isolation

Reservoir water; Virginia, USA.

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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