



Product Sheet

Pochonia chlamydosporia
var. chlamydosporia
(ATCC® MYA-4875™)

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: *Pochonia chlamydosporia* var. *chlamydosporia* (ATCC® MYA-4875™)

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

 **Description**

Strain Designation: 123

Product Description: An ampoule containing viable cells (yeast cells, spores, or agar cubes with 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 307: Cornmeal agar

ATCC® Medium 336: Potato dextrose agar (PDA)

ATCC® Medium 337: Potato, dextrose, yeast agar (PDY)

Growth Conditions

Temperature: 20°C to 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°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 to 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 1 to 2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On PDA medium at 25°C after 7 days, mycelium white to pale yellow, very dense, raised, velvety. Produces a clear exudates after 7 days. Reverse mustard yellow to bright yellow center with pale yellow margin. Hyphae guttulate. Clamp connections not observed.

 **Notes**

Egg-parasitic nematophagous fungus; biocontrol agent of plant parasitic nematodes; genome sequencing strain (Donnelly Sequencing Centre, University of Toronto, Canada); this species is also known as *Metacordyceps chlamydosporia*.

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.
TAACAAGGTCTCCGTTGGTGAACCGAGGGATCATTACCGAGTTTTCAACTCCCAAACCCCATGT
GAACTTATACCATTTACAACCGTTGCTTCGCGGGTTCTCGCCCCGGGCTTTACACCCCGGAACCGGC
GGCCCCGCGGGGACCCAAACTCTAGATTTTTATTTTAGCATGTCTGAGTGAATCATTACAAAATGAA
TCAAAACTTTCAACAACGGATCTCTGGTCTGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTA
ATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCCCAGTATTCTGGCG
GGCATGCCTGTTGAGCGTCAATTTCAACCCTCAAGCCCCAGCGGTTTGGTGTGGGGACCGCGGAGTAC
AGAGGCTTTGGGACTTGTCCCCCTCCCTCGCGCCGCCCGGAAATGAATTGGCGTCTCGTCCGG
CCTCCTCTGCGTAGTACACAACCTCGCATCAGGAGCGCGCGCGGCCACTGCCGTAAACGCCCAAC
TTTTTTAAGAGTTGACCTCGAATCAGGTAGGAATACCCGCTGAACCTAAGCATATCAATAAGCGGAG
G

D1D2 region of the 28S ribosomal RNA gene:

TTAAGCATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCCCAGTAACGGCGAGTGAAGC



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GGCAACAGCTCAAATTTGAAATCTGGCCCTAGGGCCCGAGTTGTAATTTGCAGAGGATGCTTTTGGC
GAGGTGCCCTCCGAGTTCCCTGGAACGGGACGCCATAGAGGGTGAGAGCCCGTCTGGTTGGATGCCG
AGCCTCTGTAAGCTCCTTCGACGAGTTCGAGTAGTTGGGAATGCTGCTCTAAATGGGAGGTATATGTC
TTCTAAAGCTAAATACCGGCCAGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCA
CTTTGAAAAGAGGGTTAAATAGTACGTGAAATTGTTGAAAGGGAAGCACTTATGACCAGACTTGGAC
CCGGTGAATCATCCAGCGTTCTCGCTGGTGCACCTTTGCCGGGCTCAGGCCAGCATCAGTTTGCCTCGGG
GGATAAAGGCTTTGGGAATGTGGCTCCCTCGGGAGTGTATAGCCATTGCACAATACCCTGGGGCGG
ACTGAGGTTTCGCGCATCTGCAAGGATGCTGG
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Isolation

Eggs from phytopathogenic nematode *Heterodera avenae*, Sevilla, Spain.



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