ATCC

Product Sheet

Hamigera insecticola (ATCC® MYA-3630™)

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
2

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: *Hamigera insecticola* (ATCC® MYA-3630™)

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: 10831220
Deposited Name: *Paecilomyces variotii* Bainier
Product Description: An ampoule containing viable cells (may include spores and mycelium) 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 325: Malt extract agar (Blakeslee's formula)
ATCC® Medium 200: YM agar or YM broth
ATCC® Medium 336: Potato dextrose agar (PDA)

Growth Conditions
Temperature: 24°C to 26°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 at least 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 3-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: Colonies growing rapidly, powdery to floccose, funiculose or tufted, yellow-brown or sand colour. Conidiophores with verticillately arranged branches, bearing phialides, up to 150 µm in length, 3.5-6.5 µm wide. Phialides cylindrical or ellipsoidal, tapering abruptly into a long, thin, cylindrical neck. Conidia subspherical, ellipsoidal to fusiform, hyaline to yellow, 3-5 x 2-4 µm, arising in long, divergent chains. Chlamydospores usually present.

Notes

Human pathogen used in NCCLS (CLSI) mold QC tests
This organism is a CLSI control strain for antimicrobial susceptibility testing.
Additional information on this culture is 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
AAGGATCATTACCGAGTGCGGGCCCTCTGGGTCCAACCTCCCACCCGTGTTTATCGTACCTTGTTGCTTC
GGCGGGCCCGCCGTCAGGCCGCCGGGGGGCGTCTCGCCCCCGGGCCCGCGCCCGCCGAAGACACCAT
CGAACGCTGTCTGAAGGTTGCCGTCTGAGTCGATTATCAAATCGTTAAAACTTTCAACAACGGATCTCT
TGGTTCCGGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAA
TCATCGAGTCTTTGAACGCACATTGCGCCCCCTGGTATTCCGGGGGGCATGCCTGTCCGAGCGTCATTG
CTGCCCTCAAGCCCGGCTTGTGTGTTGGGTCGCCGTCCCCCCGGGGACGGGCCCGAAAGGCAGCGGCG
GCACCGCGTCCGGTCCTCGAGCGTATGGGGCTTCGTCACCCGCTCTGCAGGCCCGGCCGGCGCTGGCC
GACAACCTTTTTTACTTTTTATCCAGGTTGACCTCGGATCAGGTAGGGATACCCGCTGAACTTAAGCATA
TCAATAA

D1D2 region of the 28S ribosomal RNA gene
ATATCAATAAGCGGAGGAAAAGAAACCAACAGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAG

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AGCTCAAATTTGAAATCTGGCCCCTCCGGGGTCCGAGTTGTAATTTGCAGAGGATGCTTCGGATACGGC
CCCCGTCTAAGTGCCCTGGAACGGGCCGTCGGAGAGGGTGAGAATCCCGTCTGGGACGGGGTGTCCG
TGTCCGTGTGAAGCTCCTTCGACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAATGGGTGGTAAATTTC
ATCTAAAGCTAAATATTGGCCGGAGACCGATAGCGCACAAGTAGAGTGATCGAAAGATGAAAAGCA
CTTTGAAAAGAGAGTTAAACAGCACGTGAAATTGTTGAAAGGGAAGCGCTTGCGACCAGACTCGCCG
ACGGGGTTCAGCCGGGATTCGTCCCGGTGTACTTCCCCGCCGGCGGGCCAGCGTCGGTTTGGGCGGCC
GGTCAAAGGCCTCCGGAATGTATCGCCCCCCGGGGCGTCTTATAGCCGGAGGTGCAATGCGGCCTGCC
CGGACCGAGGAACGCGCTTCGGCACGGACGCTGGCATAATGGTCGTAAGCGAC

beta-tubulin (TUB2) gene
GAGATTGTAAGTTGTCCCCTCAAACAGACGCGTTTCTGCTTTTGCCTGGGTTCTCCCCTGAGAGAGACCC
CACCCGTTCAAACAACGCAGACTTGCTGACTTTACTTCGACTACAGGTTCACCTCCAGACCGGCCAGTG
TGTAAGTTTGATTTTTTTCGACATGGGATCTTTGAAGGGAGTATTTGTGATTGGCAAGAATACTAAAATC
CGATCTCTGGCATAGGGTAATCAAATAGGTGCTGCTTTCTGGTACGTTGACAAATCCAAACGAGAAGA
CAAAATAAAATCCCAACTTCTCAAAACACCAATTCAATAGAAATTGGGTCGAATAATATCATACTGAC
AATCTTTACAGGCAGACCATCTCTGGCGAGCACGGTCTTGATGGCTCCGGTGTGTAAGTGCAACCCAC
GCTTTCGGCCCCGACAACGATACAACCAGATCAATTCTGATGATAAAACAGTTACAATGGCACCTCCG
ACCTCCAGTTGGAGCGTATGAACGTTTACTTCAACGAGGTTCGTGAATTGGACATGTGGATCCGAATAC
AACGTGTCCAATGCTGATATATCATCAGGCCAGCGGTAACAAGTATGTCCCCCGTGCCGTCTTGGTCGA
TCTCGAGCCTGGCACCATGGACGCTGTCCGTGCCGGTCCTTTCGGCCAGCTCTTCCGCCCCGACAACTTC
GTTTTCGGCCAGTCTGGTGCCGGTAACAACTGGGCCAAGGGTCACT

Isolation

Connecticut, United States

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 2

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.