



Product Sheet

Paxillus involutus (ATCC®) MYA-4647™

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: *Paxillus involutus* (ATCC® MYA-4647™)

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: ATCC 200175 [87.017]

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 200: YM agar or YM broth

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

ATCC® Medium 2798: MMNC Medium

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. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 5-6 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On YM agar, after 35 days at 25°C, colonies are white to creamy, velutinous, dense, radially sulcate, and exudate is brown to dark brown in color. Clamp connections present on hyphae, spores not observed.

Notes

Genome sequencing strain (the Joint Genome Institute at the Department of Energy, USA). Poisonous mushroom.

*The mycelia-medium cubes contained in this vial were presoaked in ATCC Medium #2232 before preservation to increase viability after thawing.

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.
CATTATCGAAAAGCAATCCGGGGGAGGCGACCGAGCGAAGTTTGGTAGATCGTAGGGATTGTCGCT
GGCCTTTGAAAACGAAGGCATGTGCACGTTCCGAGTTCTCCTTAGTCCTCCTTTGCCCTTTCTTTGAAA
ACCCCTTTCTCACACCCGTGCACCCATTGTAGTCTCCGCGAGGGGATCTATGTCTTCACATAAACACTA
CGTATGCTAGGAATGTATCTAAAAGCGTCGGACGGCTTGGCTTCGTGCCCGGTCCGCGACCGTAAAG
AACCATAATACAACCTTTAGCAACGGATCTCTTGGCTCTCGCATCGATGAAGAACGACGCGAATTGCG
ATAAGTAATGTGAATTGCAGATTTTTCAGTGAATCATCGAATCTTTGAACGACCTTTCGCTCCTTGGTAT
TCCGAGGAGCATGCCCTGTTTGTAGTGTCAATTAATTCTCAACCATCCCTCGATTGCTTTCGAGGGTTTGGC
TTGGATTTTGGGGCTGCCGGGCGACCCTAGGGTCTTCGGCTCTCCTTGAAGCATTAGCGATGGCGGC
GCGATCAACCCCCC

D1D2 region of the 28S ribosomal RNA gene

CATATCAATAAGCGGAGGAAAAGAACTAACAAAGGATCCCCTAGTAAGTGCAGTGAAGCGGGAT
GAGCTCAAATTTGAACTGTGGCGTCTTCAGGCCGTCGAGTTGTAATCTAGAGAAGCGTCTTCGCGC
TGGACCGTGTACAAGTCTCCTGGAAGGGAGCGTCGTAGAGGGTGAAGAATCCCCTCTTTGACACGGACT



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GCCAGTGCTATGTGATGCGCTCTCGACGAGTTCGAGTTGTTGGGAATGCAGCTCAAATCGGGTGGTAA
ACTCCATCTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAGTACCGTGAGGGAAAGATGAA
AAGAACTTTGGAAAGAGAGTTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGAGGTGAGTCCG
CGTCGGACGGGGATCAACCTTGCTTCTCGCTCGGTGACTTCTGCTCGACGGGTCAGCATCAGTTTCG
GTCGCGGTACAAGGGTTCGAGGGAAATGTGGCACTCCTCGAGTGTGTTATAGCCTTCGGTCCGATGCGG
TGGTTGGGACTGAGGAACCTCAGCACGACCCCTCGAGGGTTCGGGGCCACGGCTACGTTAACGTGCTT
AGGATGCTGGCATAATGGCCTTAAGCGA
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Birch plantation, Bush Estate, Penicuik, Midlothian, Scotland.



References and other information relating to this product are available online at 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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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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