Cunninghamella elegans
(ATCC® 36112™)

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

Biosafety Level 1

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Cunninghamella elegans (ATCC® 36112™)

Product Sheet

Cunninghamella elegans
(ATCC® 36112™)

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: Cunninghamella elegans (ATCC® 36112™)

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 5-7 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology:

After 10 days colonies spreading rapidly, at first white, later with dark spots of conidia, becoming gray, conidiophores erect, with verticillate or solitary branches; vesicles subglobose to verruculose, or shortly echinulate, hyaline, or with granular contents, brownish in mass.

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

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AGCTAAAGTTGGAACCTGGTGGGCATAGCTCACCCGGATTGTAAACTAAAGTTTTTGAGTCGTTTAGT
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CAGCCAGGTAAATAAGTCCTCTGGAAAGGGGCGACATAGAGGGTGAAATCCCCGTCTTTGGCCTGAGTTTTGGTTAGGCGTTTGGCTTGGAAACGAAGAGTCAGGTTGTTTGGGAATGCAGCCTAAAATGGGAGG
TAAATCTCTCCTAAGCTAAATATTGACGAAAGACCGATAGCGAACAAGTACCGTGAGGGAAAGATG
AAAAGCACTTTGAAAAGAGGGTCAAAAAGTACGTGAAATTGCTGAAAGGGAACCGTATGAAATCAG
ACCTACTGTTAGGTAATCAATCTTTCCCTTGGGAAGGATGCACTTGCCTGCTATGTATGCCAGCAT
TTTGGTTGGGAGGAAAAAAATAGAAGGAATGTAGCCTAGGCTTCGGTTTAGGTGTTATAGACTTTTAT
AAAATACTCTCGGCTGGAATGAGGAACGCAGCAAACCGTAAGGCGAAGATTCTAGTCGCTTGGGGG
AATAATTAGAGAATTTCTGCTTCGGGTGGTGCTTTGATTATTACTTTCAACTCGGTTGGAGTTCTTTAATT
TGCTTAGGTTGTTGGCTTAATGATTTATATGAC

Estuarine mud

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.

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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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