



Product Sheet

Dictyostelium unicornutum (ATCC® MYA-4861™)

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: *Dictyostelium unicornutum* (ATCC® MYA-4861™)

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: OH599

Genotype: Not available

Product Description: An ampoule containing viable cells (may include spores, cysts and plasmodia) 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 579: LY Agar for Filobasidium

ATCC® Medium 2432: wMY (weak Malt Yeast Extract)

ATCC® Medium 2219: Corn meal agar, half-strength

Growth Conditions

Temperature: 20°C to 25°C

Atmospheric: 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. One day prior to inoculation streak center of agar medium with a large X of live food source and incubate at 25°C to 30°C. Several replicates are recommended for optimum results.
2. 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.
3. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer a few drops of inoculum onto the medium containing food source directly at center of X.
4. Incubate the culture at the propagation conditions recommended.
5. Inspect for growth of the inoculum/strain regularly. Viability is typically noticeable after 7 - 10 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: On LY agar after 10 days at 20°C, Sorocarps solitary to loosely clustered and erect.

Notes

Type strain of the species.

Grown in two-member culture with *Escherichia coli* ATCC® 23437 as food source.

Exposure to low light may also benefit growth.

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:

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GAAACTGCAGACGGCTCATTACAACAGTGATAAACTAATAGAGTTTCGGGTCTAACCTTTATGGATAT  
CCGCAGTAAATCGGGGCTAATACATACAAACGAGGGGTACTGTTACAGAAGCTTCGCGATTATTAG  
TCTAACCAATACCCGCAAGGGTCTAGTGGTGAACCGAATAATATTGCAGATCGAAACCTAGTTTCGA  
CGATTCTATTGTGCTACTGCCCTATCAACTTTCGATGGTACGGTATTGGCCTACCATGGTTGTAACGGGT  
AACGGGGAATTAGGGTTCGATTCGGAGAGGGCGCCTGAGAAATGGCGACCATTCTACGGAAGGCA  
GCAGGGCGGCAAAATTACTCAATCCCAATACGGGGAAGTAGTGACAATAAATATCAATGCCTATTTCGTT  
TTTCGAAAGGTAATTGAAATGGGTACAAATTAACCCCTTAACCAATACAAATTGGAGGGCAAGTCTGG  
TGCCAGCAGCCCGGTAATCCAGCTCCAATAGCATATACTAAAGTTGTTGCGGTTAAAAAGCTCGTA  
GTTGAAACTAAATTTGATTGGGCTCAAGCTTGATAGCCACTTTGGTGGTTATCAAGTTCAGTGCAATTTT  
TTTGAAGCGCCCTTAAAGCCTTACCTCGTAGTTGGTTTTCTGGGTTTTTCACTGTGAGAAAAATTGTG  
GTGTTCAAAGCGGGGCTTTCGCTGATCTTTTGCAGCATGGGATGATAAAACATGACATTCGAATGCAAT  
TGTTGCATCTGAGTGAATGATTAATAGGGATGGATGGGGGTGTTTCATATTGGTGGGCGAGAGGTGA
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AATTCGTTGACCCTATCAAGATGAACTTCTGCGAAAGCATTATCAAACTTCCCCATTAATCAAGAA
CGAAAGTTTGGGGATCAAAGACGATCAGATACCGTCGTAGTCCAAACTATAAACTATGTCCGACCAGG
GATCGGGTAGCATTTCAAAAATCTATTTGGCACCTTGTGAGAAATCATGAGTGTTTAGATTCTGGGG
GGAGTATGGTCGCAAGTCTGAAACTTAAAGGAATTGACGGAAGGGCACACAATGGAGTGGAGCCTG
CGGCTTAATTTGACTCAACTCGGGAAAACTTACCAAGCTAAGATATAGTAAGGATTGACAGACTAAAA
GATTTTTCATGATTCTATAAAGTGGTGGTGCATGGTCTTCTAGTTGGTGGAGCAATCTGTCTGGTCAAT
TCCGATAACGGACGAGATCTCGACCTGCTAACTAGTAGTACGTATTTGGTGCATATGGGTGAAGCTCT
TTTGGAGTAAGTTGTGCGTCGCAAGGTGTACAGCACTTCTGGGGTTTGTAACTGGTCAGATACGTAC
GATTAATAAACTTCTTAGAGGGACTACCTGTGGCAAACAGGGGGAAGTTCGAGGCAATAACAGGTC
TGTGATGCCCTTAGATACCTTGGGCCGCACGCGCTACAATGTAAAGGCAAAAAGCTTTCCTGGTC
CGGAAGGACTGGTAATCATCTGAATTTTTACGTAAGTGGATTGATCTTTGTAATTATTGATCATCAA
CGAGGAATTCCTTGAAGCGCAAATCATTACTTTGTGCTGAATAGTCCCTGCCCTTTGTACACACCGCC
CGTCCGCTCCTACCGATCGAATGATACGGTAAAGCCAACAGATATGGCTCTGTAGCAATACGAGAGTTG
TAGAAGT
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Isolation

Soils collected from the semi-green rain forest of Tikal, Guatemala.



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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