



Product Sheet

# *Dictyostelium capillare* (ATCC® MYA-4862™)

Please read this **FIRST**



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

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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 capillare* (ATCC® MYA-4862™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
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Or contact your local distributor

## Description

**Strain Designation:** 37A

**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. A day prior to inoculation, streak live food source on the center of agar medium with a large X and incubate at 25°C to 30°C. Several replicates are recommended to prepare 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 directly into the medium containing the food source.
4. Incubate the culture at the propagation conditions recommended.
5. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically 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 erect clusters and variable in height.

## Notes

Type strain of the species.

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

Exposure to low light may help growth.

Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

18S ribosomal RNA gene, partial sequence:

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GAAACTGCAGACGGCTCATTACAACAGTAATAAACTAATAGACTTTCGGGTTAATTACCTTTTGATA  
ACCGCAGTAAATCGGGGCTAATACATACAATCGAGGGGTGACTGTTTACGGAATCTCCGCATTATTA  
GCATTCAACCAATACCTTTGAGGTTTTGTGGTGAAACCGAATAATATTGCAGATCAAAGCTTTCGGCT  
TTGACAAGTCTATTGTGTTACTGCCATCAACTTTCGATGGTACGGTATTGGCTACCATTGTTGTAAC  
GGGTAACGGGGAATTAGGGTTCGATTCGGAGAGGGCGCCTGAGAAATGGCGACCATTCTACGGAA  
GGCAGCAGGCGCGCAAACTACTCAATCCCAATACGGGGAAGTAGTGACAAGAATATTAATGCCTAT  
CCTTTTAGGAAGGTAATAAAAATGGGCTAACTAAATCCATTTTCTAATACAATTGGAGGGCAAGTCT  
GGTGCCAGCAGCCGCGGTAATCCAGCTCCAATAGCATATACTAAATTTGTTGCGGTTAAAAAGCTCGT  
AGTTTAAACAAAAATTATATTGGGCTAATAGGTGTTAGCCGGATTTTATCCCGGTTTAACTACTCCAAT  
ATATATTTTTTAAATATTAGCTCTGGATTTGGTTACTTTTGTAAATCAAGTTAGAGTCCCTCAGTGT  
GAGAAAATTGGTGTCTAAAGCAGGCGTTTCGCTTGTATCTTTGCAGCATGGTATGATAGAACATGAC
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ATTTTGTGCTATTGGTTGCATTAAAGTGAATGATTAATAGGGATGGATGGGGGTGTTTCATATTGGTGG  
GCGAGAGGTGAAATTCGTTGACCCTATCAAGATGAACCTTCTGCGAAAGCATTACACAAATACTTCCCC  
ATTAATCAAGAACGAAAGTTTGGGGATCAAAGACGATCAGATACCGTCGTAGTCCAAACTATAAACT  
ATGTCGACCAGGGATCAGCTAAAATTTCTAAAAATTTAGTTGGCACCTTGTGAGAAATCACGAGTGT  
TTAGATTCTGGGGGGAGTATGGTCGCAAGTCTGAAACTTAAAGGAATTGACGGAAGGGCACACAATG  
GAGTGGAGCCTGCGGCTTAATTTGACTCAACTCGGGAAAACTTACCAAGCTAAGATATAATAAGGATT  
GACAGACTAAAAGATCTTTTCATGATTGTATAAGTGGTGGTGCATGGTCGTTCTTAGTTGGTGGAGCAAT  
CTGTCTGGTCAATCCGATAACGGACGAGATCTCGACCTGCTAACTAGTAGTACATATTAGCTCAATAT  
GCATGAAAGATTAGTTGGAGTAAGTTGTAGTGCAGAAAGTTTACAGCACTTCACTGGTTCGGTAATGT  
GAATTAATATGGTACGATAAATAAACTTCTTAGAGGGACTACCTGTGGCAACAGGGGGAAGTTTCG  
AGGCAATAACAGGTCTGTGATGCCCTTAGATACCTTGGGCCGACGCGCTCAATGTAGTACGCAA  
AAAGCTCTCCTGGTCCGGAAGGATTGGGTAATCAAAAAATTTACTACGTAACCTGGGATTGATCTTTGTA  
ATTATTGATCATCAACGAGGAATTCCTGTGAAGCGCAAACTACTTGTGCTGAATATGCCCTGCC  
TTTGACACACCCGCTCGCTCCTACCGATCGAATGATACGGTAAAGCCAACAGATTGGATCTGTAGC  
AATACAGAGCTGAAAAGTTGTTTAAATCT

### Isolation

Soils collected from seasonal rain forest Bladen Preserve, Belize

### 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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