



Product Sheet

# *Dictyostelium simplex* (ATCC® MYA-4860™)

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 simplex* (ATCC® MYA-4860™)

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:** OH 598

**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 onto the medium containing 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 solitary erect solitary to clustered 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 the 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:

```
GAAACTGCAGACGGCTCATTACAACAGTGATAAACTAATAGAGTTTCGGGTCTAACCTACCTGGATAT  
CCGCAGTAAATCGGGGCTAATACATACAAACGAGGGGTGACTGTTTACGGGAGCTCCGCGATTATTAG  
TCTAGCCAATACCCGCAAGGGTTTTGTGGTGAAACCGAATAATATTGCAGATCGAAATCTAATTTTCGAC  
AATTCTATTGTGTCACCTGCCCTATCAACTTTTCGATGGTACGGTATTGGCCTACCATGGTTGTAACGGGTA  
ACGGAGAATTAGGGTTTCGATTCGGGAGAGGGCGCCTGAGAAATGGCGACCACTTCTACGGAAGGCAG  
CAGGCGCGCAAATTAATCAATCCCAATACGGGGAAGTAGTGACAATAAATATTAATGCCTATTCGTTTT  
TCGAAAGGTAATAAAATGGGTACAATAAATCCCTAACTAATAAATGGAGGCAAGTCTGGTG  
CCAGCAGCCGCGGTAATTCAGCTCCAATAGCATATACTAAAGTTGTTGCGGTTAAAAAGCTCGTAGTT  
GAAACTAAATTTGTATTGGGTCCAAGTTCCAGTACCTTTGGTGGTTACGGAATTCAGTGCATTTTTTT  
AAACCTGCCCTTAAGCCCTACTTTTGTAGTTGGTTTTCTGGGTACTTCACTGTGAGAAAATTTGGTGTG  
TTCAAAGCGGGCGCTCGCCGTATCTTTTGCAGCATGGTATGATAAAACATGACATTTTGTGCAATTTGG  
TTGCATTTAAGTGAATGATTAAATAGGGATGGATGGGGGTGTTTCATATTGGTGGGCGAGAGGTTGAAAT  
TCGTTGACCTATCAAGATGAACTTCTGCGAAAGCATTCAATACTTCCCATTAATCAAGAACGA
```



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AAGTTTGGGGATCAAAGACGATCAGATACCGTCGTAGTCCAACTATAAACTATGTGACCAGGGATC  
GGTTAATATTTTTAAAAATTTACTCGGCACCTTGTGAGAAATCATGAGTGTGATTCTGGGGGGAG  
TATGGTCGCAAGTCTGAAACTTAAAGGAATTGACGGAAGGGCACACAATGGAGTGGAGCCTGCGGCT  
TAATTTGACTCAACTCGGGAAAACTTACCAAGCTAAGATATAGTAAGGATTGACAGACTAAAAGATTT  
TTCATGATTCTATAAGTGGTGGTGCATGGTCGTTCTTAGTTGGTGGAGCAATCTGTCTGGTCAATCCGA  
TAACGGACGAGATCTCGACCTGCTAACTAGTAGTACTTATTCGGTCGATATGAGTGAAGGCTCTCAAG  
GAGTAAGTTGTGCGTCGCAAGGTGCATGACACTTCGGGGGGTTTGTAACTTGATCAGATATGTACGATT  
TTAAAACTTCTTAGAGGGGACTACCTGTGGCAAACAGGGGGAAGTTTCGAGGCAATAACAGGTCTGTG  
ATGCCCTTAGATACCTTGGGCCGACGCGCTACAATGTAATAGGCAAAAAGCTCTCCTGGTCCGGA  
AGGATTGGGTAATCATATGAATTTATTACGTAAGTGGGCTTGTATCTTTGTAATTATTGATCATCAACGAG  
GAATTCCTTGTAAAGCGAAATCATTACTTTGCGCTGAATATGCCCTGCCCTTTGTACACACCGCCCGTC  
GCTCCTACCGATCGAATGATACGGTAAAGCCAACGGATAAGATTCTGTAGCAATACGTGAATTTAAA  
AGT

### 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](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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