ATCC

Product Sheet

Dictyostelium reciprocatum (ATCC® MYA-4865™)

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 reciprocatum* (ATCC® MYA-4865™)

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: 38A
Genotype: Not available
Product Description: An ampoule containing viable cells (may include spores, cysts, and plasmodia) suspended in cryoprotectant.

Propagation

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 erect, prone, solitary to clustered 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 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:
GAAACTGCAGACGGCTCATTACAACAGTAATAAACTAATAGACTTTCGGGTTTCATTACCTTTTGGATA
ACCGCAGTAAATCGGGGCTAATACATACAATCGAGGGCTGACTGTTTACGGAATGTCCGCGATTATTA
GCATTCAACCAATACCTCTCGGGGTTTTGTGGTGAAACCGAATAATATTGCAGATCGAAGCTTCGGCTT
CGACAAGTCTATTGTGTTACTGCCCTATCAACTTTCGATGGTACGGTATTGGCCTACCATGGTTGTAACG
GGTAACGGGGAATTAGGGTTCGATTCCGGAGAGGGCGCCTGAGAAATGGCGACCACTTCTACGGAAG
GCAGCAGGCGCGCAAATTACTCAATCCCAATACGGGGAAGTAGTGACAAGAAATATTAATGCCTATC
CTCTTAGGAAGGTAATTAAAATGGGTCTAAACTAAATCCATTTTCTAATACAATTGGAGGGCAAGTCTG
GTGCCAGCAGCCGCGGTAATTCCAGCTCCAATAGCATATACTAAATTTGTTGCGGTTAAAAAGCTCGTA
GTTGAAGTAAAAGCCTTATTGGGTTAATAGGTCTTAGCCGACTTCGTCGGTTTAAGGCTTCCAATATGT
GTTTTTTAAATTAATTCATGGATTAGGTTACTTTTGTAATTCTAGTTCTTTTGGGTGTTTCACTGTGAGAAA
ATTGTGGTGCTTAAAGCGGGCGTTTAGCCTGATCTTTTGCAGCATGGTATGATAGAACATGACATTTTG
CGCTATTGGTTGCGTTAAAGTGTAATGATTAATAGGGATGGATGGGGGGTGTTCATATTGGTGGGCGA
GAGGTGAAATTCGTTGACCCTATCAAGATGAACTTCTGCGAAAGCATTCACCAAATACTTCCCCATTAA
TCAAGAACGAAAGTTTGGGGATCAAAGACGATCAGATACCGTCGTAGTCCAAACTATAAACTATGTC
GACCAAGGATCAGCTAAAATTTTACAAAAATTTAGTTGGCACTTTGTGAGAAATCATGAGTGTTTAGAT
TCTGGGGGGAGTATGGTCGCAAGTCTGAAACTTAAAGGAATTGACGGAAGGGCACACAATGGAGTG

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GAGCCTGCGGCTTAATTTGACTCAACTCGGGAAAACTTACCAAGCTAAGATATAATAAGGATTGACAG
ACTAAAAGATCTTTCATGATTGTATAAGTGGTGGTGCATGGTCGTTCTTAGTTGGTGGAGCAATCTGTCT
GGTCAATTCCGATAACGGACGAGATCTCGACCTGCTAACTAGTAGTATATATCGATTCAATATGCATGA
AAGCCTTGTTGGAGTAAGTTGTAGGTCGCAAGGTCTATGACACTTCGCTGGGTCGGTAATGTGAGTTGA
TAAATACGAAAAATTAAAAAAACTTCTTAGAGGGACTACCTGTGGCAAACAGGGGGAAGTTCGAGGC
AATAACAGGTCTGTGATGCCCTTAGATACCTTGGGCCGCACGCGCGCTACAATGTAGTACGCAAAAAG
CAATCCTGGTCCGGGAGGACTGGGTAATCATAAATTTACTACGTAACTGGGATTGATCTTTGTAATTTTT
GATCATCAACGAGGAATTCCTTGTAAGCGCAAATCATTACTTTGTGCTGAATATGTCCCTGCCCTTTGTA
CACACCGCCCGTCGCTCCTACCGATCGAATGATACGGTAAAGCCAACAGATGGAGTCAGTAGCAATA
CATGACTTTAAAAGTTGTTTAAATCTCATT

Isolation

Soils and leaf mold from seasonal rain forest of southern Belize (Bladen Preserve), Belize; 2010.

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.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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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