



Product Sheet

# *Schizochytrium limacinum* (ATCC® MYA-1381™)

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: *Schizochytrium limacinum* (ATCC® MYA-1381™)

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

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** SR21 [IFO 32693]

**Deposited Name:** *Schizochytrium limacinum* Honda et Yokochi

**Product Description:** An ampoule containing viable cells 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 790: By+ medium

ATCC® Medium 633: M3 chytrid agar

ATCC® Medium 683: Koch's K-1 medium

## Growth Conditions

**Temperature:** 18°C to 22°C

**Atmosphere:** 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. 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 50 µL (or any amount desired up to all) 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 2-3 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

## Notes

Culture morphologically looks pure. But ITS sequence suggests it may have different rDNA operons. Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

Partial sequence of 18S ribosomal RNA gene, 5' end

```
GTGTAAGTATAAGCGATTGTAAGTGTGAGACTGCGAACGGCTCATTATATCAGTAATAATTTCTTCGGTA  
GTTTCTTTTATATGGATACCTGCAGTAATTCTGGAAATAATACATGCTGTAAGAGCCCTGTATGGGGCT  
GCACCTATTAGATTGAAGCCGATTTTATTGGTGAATCATGATAATTGAGCAGATTGACTTTTTGGTCGAT  
GAATCGTTTGAGTTTCTGCCCCATCAGTTGTCGACGGTAGTGTATTGGACTACGGTGACTATAACGGGT  
GACGGAGAGTTAGGGCTCGACTCCGGAGAGGGAGCCTGAGAGACGGCTACCATATCCAAGGATAGC  
AGCAGGCGCGTAAATTACCCACTGTGGACTCCACGAGGTAGTGACGAGAAATATCGATGCGAAGCGT  
GTATGCGTTTTGCTATCGGAATGAGAGCAATGTAACCCTCATC
```

Partial sequence of 18S ribosomal RNA gene, 3' end

```
TGGAATTGAGTGCCTGGTGGGAAGGCCTGGCTAATCCTTGAACGCTCATCGTCTGGGGCTAGATTTT  
TGCAATTATTAATCTCCAACGAGGAATTCCTAGTAAACGCAAGTCATCAGCTTGCAATTGAATACGTC  
TGCCCTTTGTACACACCGCCCGTCCGACCTACCGATTGAACGGTCCGATGAAACCATGGGATGTTTCTG  
TTTGGATTAATTTTTGGACAGAGGCAGAACTCGGGTGAATCTTATTGTTAGAGGAAGG
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## Isolation

Seawater in mangrove area, Colonia, Yap Islands, Micronesia

## References



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### 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

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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