Strain Designation: S31
Deposited Name: Schizochytrium sp.
Product Description: An ampoule containing viable cells suspended in cryoprotectant.

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 534: Seawater with serum
ATCC® Medium 662: Seawater medium

Growth Conditions
Temperature: 20°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 to 4 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

No special notes.
Additional, updated information on this product may be available on the ATCC® web site at www.atcc.org.

18S ribosomal RNA, partial sequence:
TGTAGTCATATGCTTGTCTCAAAGACTAAGCCATGCATGTGTAAGTATAAGCGAATTATACTGTGAAAC
TGCGAACGGCTCATTATATCAGTTATAATCCCTTCGTTACGGGCCCGACTTTCGGGGAGGGCCGCACTTATTAGGTCTAAGCCAACTC
TCTTGGTGAGTCATGATAATTGAGCAGATCGCTTTTCGGAGCGATGAATCGTTTGAGTTTCTGCCCCATC
AGTTTGTGAGCTAGGCTTGATGCTGACTAATACGGTGAGGGGAGTTAGGGCTCGACTCC
GGAGAGGGAGCCCCTGGAGACGGCGTACCACATCAAGGAAGGCGAGGCAGGCAGCTCGACTCCG

Isolation
Estuarine water, California

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

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