



Product Sheet

Synechococcus sp. (ATCC® 27264™)

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: *Synechococcus* sp. (ATCC® 27264™)

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

Designation: PCC 7002 [PR-6]

Deposited Name: *Synechococcus* sp.

Product Description: Produces restriction endonuclease *Aql*.

Propagation

Medium

ATCC® Medium 1047: MN Marine medium (ATCC Medium 957) with 20 mcg/L of vitamin B12

Growth Conditions

Temperature: 26°C

Atmosphere: Aerobic under light intensity of 2,000-3,000 LUX

Propagation Procedure

Incubate test tube cultures under above conditions upon receipt. DO NOT STORE IN A REFRIGERATOR. It is helpful to incubate test tubes in a slanted position to increase gas exchange in broth and to enhance exposure to light. Transfer culture to fresh media within one week of arrival, as follows:

1. Withdraw 0.6 mL from the base of a broth culture where cells are concentrated, or harvest cells from a slant culture with 0.6 mL of #1047 broth.
2. Using this aliquot, inoculate one broth and one slant tube with 0.2 and 0.4 mL respectively.
3. Incubate tubes at 26°C under 2000-3000 LUX light.

Notes

Good growth, indicated by green, plant-like growth in broth or on the slant, should occur after one to two weeks of incubation. Examine cells microscopically to assure that they are intact and healthy. At this time additional test tubes or flasks can be inoculated. A 5% inoculum is recommended (i.e. 5 mL of culture to 100 mL fresh medium).

To minimize change in a culture, it is recommended that a frozen seed stock be established from early passage cells. This may be accomplished by propagating the strain under ideal conditions, utilizing recommended medium, temperature and light. Prepare a concentrated cell suspension, after good growth is achieved. If grown in broth, pellet the cells by centrifugation. Decant the supernatant and resuspend the pellet in fresh #1047 broth using 1/10 or less of the original volume. For slant cultures, wash cells off the agar surface with a minimal amount of #1047 broth so that a concentrated cell suspension is attained. Add 50% DMSO solution to the concentrated cell suspension so that the final concentration of DMSO in the suspension is 5%. Dispense small aliquots (0.5 to 1 mL) of the suspension into small sterile vials. Store the vials at -50°C or below.

When needed, remove vials from storage, thaw contents in a 37°C water bath and inoculate into recommended medium. A minimum of 0.2 mL of the thawed stock should be used to inoculate 5 mL of broth or 1 agar slant.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

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

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the



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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

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