



# *Synechocystis* sp.

27266™

## Description

**Strain designation:** PCC 6906

**Deposited As:** *Synechocystis* sp.

**Type strain:** No

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## Storage Conditions

**Product format:** Test tube

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and

will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Growth Conditions

**Medium:**

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

**Temperature:** 26°C**Atmosphere:** Aerobic**Incubation:** Under light intensity of 2,000-3,000 lux

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### Handling Procedures

**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**

***Synechocystis* sp.**

27266

strain under ideal conditions, utilizing recommended medium, temperature and light. Prepare a concentrated cell suspension, after good growth is achieved. If grown in broth, concentrate 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 cell suspension into small sterile vials. Store the vials at -50°C or below.

When needed, remove vials from storage, thaw contents at room temperature, and inoculate into recommended medium. The entire content of the vial should be added to a single tube (primary tube) of broth of ATCC® medium #1047 (5.0 6.0 ml of broth per tube). Additional tubes, broth and/or slants, may be inoculated by transferring 0.5 1.0 ml of the primary tube.

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**Notes**

This strain of *Synechocystis* is a mixed culture that also contains *Algoriphagus* species.

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

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**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Synechocystis* sp. (ATCC 27266)

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**References**

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Revision

This information on this document was last updated on 2021-05-19

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