



# Synechococcus sp.

27144™

## Description

Cyanobacterium with applications in biotechnology.

**Strain designation:** PCC 6301 [CCAP 1405/1, SAUG 1402/1, Tx20, UTEX 1550, UTEX 625]

**Deposited As:** *Synechococcus* sp.

**Type strain:** No

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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.

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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 submerged 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 submerged 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 616: Medium BG-11 for blue-green algae

**Temperature:** 26°C

**Atmosphere:** Aerobic

**Incubation:** Under light intensity of 2,000-3,000 lux

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**Handling Procedures**

1. Open thawed vial according to enclosed instructions or visit [www.atcc.org](http://www.atcc.org) for instructions.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #616 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.

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3. Use several drops of the primary broth tube to inoculate a #616 agar slant.
  4. Incubate at 26°C for 7-14 days under 2000-3000 lux light. It is helpful to incubate test tubes in a slanted position to increase gas exchange in broth and to enhance exposure to light.
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### **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Synechococcus* sp. (ATCC 27144)

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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**

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