



Product Sheet

Pleurocapsa sp. (ATCC® 29393™)

Please read this **FIRST**



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: *Pleurocapsa sp.* (ATCC® 29393™)

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 7327 [OH-69-pm]
Deposited Name: *Pleurocapsa sp.*

Propagation

Medium

ATCC® Medium 616: Medium BG-11 for blue-green algae

Growth Conditions

Temperature: 37.0°C

Atmosphere: Under light intensity of 200 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 #616 broth.
2. Using this aliquot, inoculate one broth and one slant tube with 0.2 and 0.4 ml respectively.
3. Incubate tubes at 37°C under 200 LUX light.

Notes

When examined by phase microscopy the cells appear as cocci with a deep green pigmentation that form clumps.

Under the best of condition this culture does not demonstrate good growth. This culture only has a few clumps of cells at any one time and reaches the maximum cell density after a few weeks of incubation. When checking a test tube for growth you may find that you have to shake the test tube and then hold it in front of a white surface to see the slumps of cells. Examine cells microscopically to assure that they are intact and healthy before transferring. After reaching its maximum density the culture needs to be transferred to additional fresh tubes of broth, this culture does not grow on agar. 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 #616 broth using 1/10 or less of the original volume. For slant cultures, wash cells off the agar surface with a minimal amount of #616 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.

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 ATCC® product is a living cell or microorganism, ATCC lists the media



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formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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

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

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