



# *Azotobacter chroococcum* Beijerinck

4412™

## Description

*Azotobacter chroococcum* strain X-50 is a whole-genome sequenced bacterium that was isolated from soil. This culture has potential applications as a plant growth promoting strain.

**Strain designation:** X-50 [NCIB 8003, NRS 7]

**Deposited As:** *Azotobacter chroococcum* Beijerinck

**Type strain:** No

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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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 12: Azotobacter Supplement

**Temperature:** 26°C

**Atmosphere:** Aerobic

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## **Handling Procedures**

1. Open vial.
2. Rehydrate the entire pellet with approximately 0.5 mL of #12 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #12 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to

- these secondary tubes.
3. Use several drops of the primary broth tube to inoculate a #12 plate and/or #12 agar slant.
  4. Incubate at 26°C for 3-5 days.
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## **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Azotobacter chroococcum* Beijerinck (ATCC 4412)

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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 2024-08-10

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