



# *Azotobacter beijerinckii* Lipman

19360™

## Description

*Azotobacter beijerinckii* strain NCIB 8948 is a bacterial type strain that was isolated from activated sludge. This strain forms cysts but no endospores are formed.

**Strain designation:** NCIB 8948 [3]

**Deposited As:** *Azotobacter beijerinckii* Lipman

**Type strain:** Yes

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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 14: Azotobacter medium

**Temperature:** 30°C

**Atmosphere:** Aerobic

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## Handling Procedures

1. Open vial.
2. From a single tube of #14 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette and use to rehydrate the pellet.
3. Aseptically transfer the rehydrated pellet back into the broth tube. Mix well.
4. Incubate at 30°C. Growth should occur in 3 to 5 days.

5. After growth appears in the broth, a second tube of broth, a slant, and/or a plate may be inoculated. It is advisable to establish good growth in the primary tube before making subsequent transfers.
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## Notes

Strain is non-motile and stains Gram negative. Strain forms cysts but no endospores are formed.

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: *Azotobacter beijerinckii* Lipman (ATCC 19360)

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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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Please see the material transfer agreement (MTA) for further details regarding the use of this product. The MTA is available at [www.atcc.org](http://www.atcc.org).

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