



# *Azospirillum irakense* Khammas et al.

51182™

## Description

**Strain designation:** CIP 103311 [KBC1]

**Deposited As:** *Azospirillum irakense* Khammas et al.

**Type strain:** Yes

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## Storage Conditions

**Product format:** Freeze-dried

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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 838: Spirillum nitrogen-fixing medium

**Temperature:** 26°C

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### Handling Procedures

1. Open vial according to enclosed instructions.
2. From a single tube of #838 broth (5 to 6 ml), withdraw approximately 0.6 to 1.0 ml with a Pasteur or 1.0 ml pipette and use to rehydrate the entire pellet.
3. Use 0.5ml of this suspension to inoculate a #838 slant and 0.1ml to inoculate #838 plates.
- 4. Incubate tubes and plates at 26°C under aerobic conditions for 48-72 hours.**

5. After 48-72 hours of incubation, wash cells from the slant and transfer this broth to a new slant and plate. Incubate another 48-72 hours under aerobic conditions. This second transfer and incubation is necessary for complete removal of the cryoprotectant, which can inhibit growth.

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## Notes

Colonies on #838 plates are small, entire, glistening, smooth, and white. This culture will also grown on Tryptic Soy Agar (BD 236950), producing entire, glistening, smooth, translucent, and beige colonies.

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: *Azospirillum irakense* Khammas et al. (ATCC 51182)

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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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