



Azospira oryzae Reinhold-Hurek and Hurek emend. Tan and Reinhold-Hurek

BAA-777™

Description

Strain designation: GR-1

Deposited As: Unidentified bacterium

Type strain: No

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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.

BSL 2

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 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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 3: Nutrient agar or nutrient broth

ATCC Medium 2546: Mineral Medium pH 7.25

Temperature: 30°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. Using a single tube of #3 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.

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4. Use several drops of the suspension to inoculate a #3 agar slants and/or plate.
5. Incubate the tubes and plate at 30°C for 48 to 96 hours.
6. When testing for the utilization of chlorate, it must be under anaerobic conditions.*

Substrate utilization:

1. Add the electron donor (final concentration of 10 mM) and acceptor (final concentration of 10 mM) to ATCC® Medium #2546.
2. Exchange gas in head space for 80% N₂-20% CO₂ or 100% N₂.
3. Reduce the medium with the addition of cysteine (0.1 mL per 10 mL of medium, stock concentration of 3%). Let the medium sit at room temperature for a minimum of 30 minutes.
4. Inoculate the medium with 0.5 mL of actively growing culture (use #3 broth culture).

Notes

Growth of this strain needs to be established in broth culture for 48 to 96 hours before transferring to agar slant tubes and agar plates. Growth may take a little longer than 96 hours to grow on agar plates.

May have to establish growth in broth before growth on agar is observed.

This strain can also grow on ATCC Medium #1955: VM medium.

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

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Azospira oryzae* Reinhold-Hurek and Hurek emend. Tan and Reinhold-Hurek (ATCC BAA-777)

References

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References and other information relating to this material are available at www.atcc.org.

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

***Azospira oryzae* Reinhold-Hurek and Hurek emend. Tan and Reinhold-Hurek**

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US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
