



Product Sheet

Azospira oryzae (ATCC® BAA-777™)

Please read this FIRST



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
2

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: *Azospira oryzae* (ATCC® BAA-777™)

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: GR-1

Deposited Name: Unidentified bacterium

Propagation

Medium

ATCC® Medium 3: Nutrient agar or nutrient broth

ATCC® Medium 2546: Mineral Medium pH 7.25

Growth Conditions

Temperature: 30°C

Atmosphere: Aerobic

Propagation Procedure

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.
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.

References

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

Biosafety Level: 2

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

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Disclaimers



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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

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