Pseudomonas aeruginosa (Schroeter) Migula

10145™

Description

This strain of *Pseudomonas aeruginosa* is a whole-genome sequenced bacterial type strain. This product can be used as a positive control for molecular detection in bioaerosols, as a quality control strain for Sensititre products, or in bacterial resistance testing of adhesives and paints.

Strain designation: [CCEB 481, MDB strain BU 277, NCIB 8295, NCPPB 1965, NCTC 10332, NRRL B-771, R. Hugh 815]

Deposited As: *Pseudomonas aeruginosa* (Schroeter) Migula

Type strain: Yes

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Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

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.

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

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Medium:
ATCC Medium 3: Nutrient agar or nutrient broth
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions.
2. From 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 and use to rehydrate the entire pellet.
3. Aseptically transfer the rehydrated pellet back into the broth tube. Mix well.
4. Use several drops of this suspension to inoculate an additional broth tube, a #3 agar slant and/or a plate.
5. Incubate the tubes and plate at 37°C for 24 hours.

Notes

This strain produces two types of diffusible pigment that may mask each other:

1. Fluorescein: diffusible, green or yellow-green in color, and exhibits fluorescence with short-wave UV light (254 nm). Production is enhanced by growth in an iron-deficient medium.
2. Pyocyanine: diffusible, blue, a chloroform-soluble pigment characteristic of *Pseudomonas aeruginosa*. Incubate in the dark as broad-spectrum light may inactivate this pigment.

The basic requirements for pigment production are not well known, and thus color production by the pseudomonads has been an erratic property that may be lost with repeated subculturing. However, this strain has remained stable.

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: *Pseudomonas aeruginosa* (Schroeter) Migula (ATCC 10145)

References

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

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