Pseudomonas aeruginosa (Schroeter) Migula

27853™

Description

Pseudomonas aeruginosa strain Boston 41501 was isolated from blood culture. This whole-genome sequenced bacterial strain has applications in media and susceptibility testing, evaluation of Mueller-Hinton Agar, and as a quality control strain for Abbott, API, Autobac, BBL, bioMerieux Vitek, Micro-Media, MicroScan™, Roche Diagnostics, and Sensititre products.

Strain designation: Boston 41501
Deposited As: *Pseudomonas aeruginosa* (Schroeter) Migula
Type strain: No
Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
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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.

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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27853

Medium:
ATCC Medium 18: Trypticase Soy Agar/Broth
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. Open thawed vial.
2. Aseptically transfer the entire contents to a 5-6 mL tube of #18 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
3. Use several drops of the primary broth tube to inoculate a #18 plate and/or #18 agar slant.
4. Incubate at 37°C for 18-24 hours.

Notes

Two colony types may be observed. Bacteriophage may be present in the culture. To prevent the proliferation of the second colony type, avoid passing this strain through broth for transfers. It is recommended to wash a slant with phosphate buffer and use that to inoculate further agar plates and/or agar flasks if needed.

To perform antibiotic susceptibility testing, open a vial to be tested into ATCC Medium #5548 broth and plates. Incubate for 18-24 hours at 37°C. Perform a subculture using ATCC Medium #5548 agar growth onto ATCC Medium #18 agar and incubate at 37°C for 18-24 hours. After the growth period on ATCC Medium #18 has concluded, antibiotic testing can be done.
Note: If an antibiotic susceptibility testing needs to be repeated, a subculture cannot be done due to possible rapid mutations of ATCC 27853. A new vial will need to be opened and the process repeated.

Purified genomic DNA (ATCC 27853D-5) and a Certified Reference Material (ATCC CRM-27853) of this strain are available.

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 27853)

References

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

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