



Product Sheet

Pseudomonas aeruginosa (ATCC® 27853™)

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: *Pseudomonas aeruginosa* (ATCC® 27853™)

Description

Designation: Boston 41501

Deposited Name: *Pseudomonas aeruginosa* (Schroeter) Migula

Product Description: Used in media and susceptibility testing, evaluation of Mueller-Hinton Agar, and as a quality control strain for Abbott, API, Autobac, BBL, bioMérieux Vitek, Micro-Media, MicroScan™, Roche Diagnostics, and Sensititre products.

Propagation

Medium

ATCC® Medium 18: Trypticase Soy Agar/Broth

Growth Conditions

Temperature: 37°C

Atmosphere: Aerobic

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #18 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 #18 agar slant and/or plate.
5. Incubate the tubes and plate at 37°C for 24 hours.

Notes

Two colony types may be observed. They have been individually characterized and found to be identical. The predominant type is erose, rough, low convex, and approximately 2 mm in diameter. The secondary type is entire, glistening, smooth, and small. This strain produces both fluorescein and pyocyanin pigments. 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.

Purified genomic DNA of this strain is available as ATCC® 27853D-5™. Certified Reference Material of this strain is available as ATCC® CRM-27853™.

Several Genbank accessions are available for this item:

1. Nucleotide (GenBank) : AB037545 *Pseudomonas aeruginosa* gene for 16S ribosomal RNA, strain:ATCC 27853.
2. Nucleotide (GenBank) : AF094719 *Pseudomonas aeruginosa* strain ATCC 27853 16S ribosomal RNA gene, partial sequence.
3. Nucleotide (GenBank) : M63957 *Pseudomonas aeruginosa* heat shock protein (groES and groEL) genes, complete cds.
4. Nucleotide (GenBank) : U07832 *Pseudomonas aeruginosa* helicase I (helA) gene, partial cds.
5. Nucleotide (GenBank) : U64101 *Pseudomonas aeruginosa* heat shock protein (groesEL) gene, partial cds.
6. Nucleotide (GenBank) : U67855 *Pseudomonas aeruginosa* UDP-3-O-acyl-GlcNAc deacetylase (IpxC) gene, complete cds.
7. Nucleotide (GenBank) : X65933 *P. aeruginosa* pa-1L gene for PA-I galactophilic lectin.

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

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



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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

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