



Klebsiella pneumoniae (Schroeter) Trevisan

BAA-2473™

Description

Klebsiella pneumoniae strain 1100770 is a whole-genome sequenced bacterium that was isolated from human urine. This strain is an NDM-1 reference strain and is resistant to ertapenem and imipenem. The strain can be used in antimicrobial resistance research, drug development, infectious disease research, urinary tract infection research, and respiratory disease research.

Strain designation: 1100770

Deposited As: *Klebsiella pneumoniae*

Type strain: No

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

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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

Medium:

ATCC Medium 18: Trypticase Soy Agar/Broth

ATCC Medium 2901: Nutrient Medium + 25ug/ml Imipenem

ATCC Medium 3: Nutrient agar or nutrient broth

Temperature: 37°C

Atmosphere: Aerobic

Handling Procedures

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1. Open vial.
 2. Using a single tube of #3 or #18 broth, withdraw approximately 0.5 - 1 mL with a pipette. Rehydrate the entire pellet.
 3. Aseptically transfer this aliquot back into the broth tube. Mix well.
 4. Use several drops of this suspension to inoculate a #3 or #18 agar plate or slant.
 5. Incubate the tubes and plate at 37°C for 24 hours.
 6. Once growth occurs, use several colonies to inoculate a plate of #2901 agar. Only colonies carrying the NDM plasmid will grow, so pick several colonies for the transfer.
 7. Incubate the plate at 37°C for 24 hours.
 8. Once the culture has recovered, all future growth should be on #2901 agar or broth to prevent loss of the NDM plasmid.
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Notes

Growth is initiated on #3 or #18 media, then switched to #2901 media with imipenem to prevent plasmid loss.

This strain is beta-lactamase positive.

bla_{KPC} negative by PCR.

bla_{NDM} positive by PCR.

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: *Klebsiella pneumoniae* (Schroeter) Trevisan (ATCC BAA-2473)

References

References and other information relating to this material are available at

www.atcc.org.

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