Streptomyces murayamaensis

21414™

Description

Strain designation: N-100
Deposited As: *Streptomyces murayamaensis*
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: Freeze-dried

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 1

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

Temperature: 26°C

Handling Procedures

1. Open vial according to enclosed instructions.

2. From a single tube of #1877 broth (5 to 6 ml), withdraw approximately 0.6 to 1.0 ml with a Pasteur or 1.0 ml pipette and use to rehydrate the pellet.

3. Use 0.5ml of this suspension to inoculate a #196 slant and 0.1ml to inoculate #196 plates.

4. Incubate tubes and plates at 26ºC, under aerobic conditions, for 5-7 days.

5. After 5-7 days of incubation, wash cells from the slant and transfer this broth to a new slant and plate. Incubate another 5-7 days under aerobic conditions. This second transfer and incubation is necessary for complete removal of the cryoprotectant, which can inhibit growth.

1. Open vial according to enclosed instructions.

2. Using a single tube of #1877 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 #196 agar slant and/or plate.

5. Incubate the tubes and plate at 26°C for 5 to 7 days.

6. After 5-7 days of incubation, wash cells from the slant and transfer this broth to a new slant and plate. Incubate another 5-7 days under aerobic conditions. This second transfer and incubation is necessary for complete removal of the cryoprotectant, which can inhibit growth.

Notes

Growth of substrate mycelium on #196 (ISP #2) is dark-brown, with a brown soluble pigment. This strain produces no aerial mycelia. Growth in #1877 (ISP #1) is in the form of a flocculent sediment.

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

Growth of substrate mycelium on #196 (ISP #2) is dark-brown, with a brown soluble

pigment. This strain produces no aerial mycelia. Growth in #1877 (ISP #1) is in the form of a flocculent sediment.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Streptomyces murayamaensis* (ATCC 21414)

References

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

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Revision

This information on this document was last updated on 2025-01-23

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