



***Streptomyces rapamycinicus* Kumar and Goodfellow**

29253™

Description

Bacterial type strain isolated from Easter Island. This strain produces sirolimus rapamycin.

Strain designation: AY B-994 [NRRL 5491]

Deposited As: *Streptomyces hygroscopicus* subsp. *hygroscopicus* (Jensen) Waksman and Henrici

Type strain: Yes

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 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

Medium:

ATCC Medium 1877: ISP Medium 1

ATCC Medium 334: Oatmeal agar

Temperature: 26°C

Atmosphere: Aerobic

Handling Procedures

1. Open vial according to enclosed instructions or visit www.atcc.org for

instructions.

2. Rehydrate the entire pellet with approximately 0.5 mL of #1877 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #1877 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 #334 plate.
 4. Incubate at 26°C for 5-14 days.
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Notes

This strain is cited to produce sirolimus (rapamycin) (J Antibiot 28: 721-726).

The organism may grow more readily on agar after growth is established first in broth during the initial incubation. The plates should be parafilmed to keep in moisture. Spore formation may take up to 14 days.

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: *Streptomyces rapamycinicus* Kumar and Goodfellow (ATCC 29253)

References

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

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