



Mycoplasma pulmonis

19612™

Description

Mycoplasma pulmonis strain [Ash, PG34; L3] is a bacterial type strain that was isolated from the lung lesion of a rat. Growth of this strain is best achieved if broth cultures are allowed to incubate aerobically and the plates in 5% CO₂.

Strain designation: [Ash, PG34; L3]

Deposited As: *Mycoplasma pulmonis* (Sabin) Freundt

Type strain: Yes

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

Medium:

ATCC Medium 243: *Mycoplasma medium*

Temperature: 37°C**Atmosphere:** Broth: Aerobic; Plates: 5% CO₂

Handling Procedures

1. Follow instructions as suggested for the culturing of *Mollicutes*:

PROCEDURES FOR PROPAGATING *MOLLICUTES*:

- a. Open the thawed vial according to the enclosed instructions.
- b. Make serial dilutions by transferring 0.5 mL from the original tube to a

- tube to a tube containing 4.5 mL of #243 broth. Repeat process by transferring 0.5 mL from the second to third tube, etc.
- c. Plates may be inoculated to check colony morphology. You can also spot each dilution on the surface of plate to determine the number of colony forming units. However, not all strains do well on solid medium.
 - d. Incubate all broth tubes at 37°C, aerobic and plates at 37°C, 5% CO₂. The time necessary for growth will vary from strain to strain. Growth on plates generally requires additional incubation.
 - e. Growth in broth will be indicated by increased turbidity. Note: The turbidity may be difficult to see. Placing tubes in front of a light source will help to see the slight cloudiness. A live/dead stain will confirm cells present.
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Notes

Many strains will die out rapidly once acid or alkaline conditions are reached.

Growth is best achieved if the broths are allowed to incubate aerobically and the plates in 5% CO₂.

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: *Mycoplasma pulmonis* (ATCC 19612)

References

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

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