Synergistes jonesii Allison et al.

49833™

Description

Strain designation: 78-1
Deposited As: *Synergistes jonesii* Allison et al.
Type strain: Yes

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

Medium:
ATCC Medium 1804: NADC - 99X medium
Temperature: 37°C
Atmosphere: 97% CO_2, 3% H_2

Handling Procedures

1. Open the vial according to enclosed instructions.

2. Perform all steps under anaerobic conditions (*see below*).

3. Aseptically transfer 0.5 ml of #1804 broth to the vial and rehydrate the pellet. Transfer the suspension back into the broth tube. Overlay 2 or 3 #1804 slants with 0.5 to 1.0 ml of culture. Inoculate a plate of a non-selective medium such as Tryptic Soy, Nutrient, or blood agar with 0.1 ml of the cell suspension.

4. Seal all tubes of #1804 with a rubber stopper and incubate anaerobically at 37ºC. Incubate nonselective plate(s) aerobically as a purity check.

5. After seven to ten days, growth is indicated by growth on the biphasic slants. Some turbidity may be detected in the broth. Once growth has been established, the culture should be transferred to fresh slants and broths every seven to ten days.

6. This culture is very sensitive to oxygen; therefore steps should be taken to avoid exposure to oxygen. When the culture exhibits good growth it will remain viable for up to 1 week if stored at 4ºC under anaerobic condition.

ANAEROBIC CONDITIONS:

· Tubes of media are placed under a gassing cannula system hooked to a source of oxygen free gas.

· All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen free gas flowing through the system.

· As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace.

Notes

When examined microscopically, the cells appear as single rods to spheres that also occur in pairs and some chains (growth taken from slant). The best growth was obtained from biphasic cultures.

Always use freshly prepared anaerobic medium. If there is any question about the anaerobic condition of the medium, the medium can be reduced with the addition of 1.5% cysteine

(0.1ml / 5ml of medium). Other commonly used reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate. Cysteine is the reducing agent of choice since it does not cause the ferrous ammonium sulfate to precipitate.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Synergistes jonesii* Allison et al. (ATCC 49833)

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 2025-08-20

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