Serpulina sp.

49776™

Description

Strain designation: VPI HILS-16
Deposited As: *Serpulina jonesii*
Type strain: No

Storage Conditions

Product format: Frozen

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 1494: Modified NOS medium
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Thaw vial at room temperature. Under anaerobic conditions, aseptically withdraw contents of vial and transfer into a tube of #1494 broth.

2. Additional tubes of #1494 slants should be inoculated with 0.5 ml each of the suspension, making a biphasic culture. Inoculate a sheep blood agar plate to check for purity.

3. Incubate tubes under an anaerobic atmosphere at 37ºC. Incubate blood agar plate aerobically.

4. This strain is highly motile with excellent cell morphology at 48 hours, however

turbidity is not apparent. The cells in older more turbid broth cultures show lower viability. The best growth is obtained in the pool at the bottom of the biphasic slant culture. Viability can be demonstrated by looking for active motile helical cells when examining a wet mount of a drop from the broth portion of the biphasic slant under phase contrast. The aerobic plate should show no signs of growth.

ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

· Use of an anaerobic gas chamber, or

· Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

· Loose screw caps on test tubes in anaerobic chamber,

· Loose screw caps on test tubes in an activated anaerobic gas pack jar, or

· Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Always use freshly prepared pre-reduced media or pre-reduced media that has been previously prepared but stored under anaerobic conditions. Resazurin in the media is a color indicator for anaerobic conditions. Observance of pink color in medium before use or during incubation shows anaerobic conditions have not been met and oxidation has occurred. Medium should be discarded.

Notes

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: *Serpulina* sp. (ATCC 49776)

References

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

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