



Brachyspira hampsonii

BAA-2463™

Description

Type strain

Strain designation: NSH-16

Type strain: Yes

Antigenic properties: Group 1

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 1827: BHI with heat-inactivated fetal bovine serum and glucose

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Temperature: 37°C**Atmosphere:** Anaerobic

Handling Procedures

1. Thaw vial at room temperature. Under anaerobic conditions (see below), aseptically withdraw contents of vial and transfer into a tube of #1827 broth (5 - 6 mL).
2. Transfer 0.5 mL of the suspension to #1827 slants, making a biphasic culture. Inoculate two sheep-blood agar plates.
3. Incubate the tubes under an anaerobic atmosphere at 37°C for 4-6 days. One

of the sheep-blood agar plates is incubated under anaerobic conditions and the second plate is incubated aerobically.

4. Growth can be observed as light turbidity in the broth as a thin film on the slants and #260 plate. Beta hemolysis is exhibited on the anaerobic blood agar plate. Viable growth can also be observed 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.
- 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 in test tubes in anaerobic chamber.
- Loose screw caps in test tubes in an active anaerobic gas pack jar.
- Use of sterile butyl rubber stopper on test tubes so that an anaerobic gas headspace is retained.

Notes

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. Observation of a pink color in the medium before use or during incubation shows that anaerobic conditions have not been met and oxidation has occurred. In that case, discard the medium.

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

Material Citation

Brachyspira hampsonii

BAA-2463

If use of this material results in a scientific publication, please cite the material in the following manner: *Brachyspira hampsonii* (ATCC BAA-2463)

References

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

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