Product Information Sheet for NR-34818

Streptococcus sp., Strain SPAR10

Catalog No. NR-34818

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Streptococcaceae, Streptococcus*
Strain: SPAR10
Original Source: *Streptococcus* sp., strain SPAR10 was isolated in 1996 from human blood obtained in Atlanta, Georgia, USA.[1]
Comments: NR-34818 was deposited to BEI Resources as *Streptococcus mitis* and it aligns favorably with the depositor's sequence, which has been reclassified as *Streptococcus infantis*.[2] However, digital DNA-DNA hybridization (dDDH) analysis of the sequence performed by BEI Resources was only able to confirm to the genus level. The complete genome of *Streptococcus* sp., strain SPAR10 has been sequenced (GenBank: ALCH00000000).

Streptococcus species are non-sporulating, Gram-positive cocci often part of the normal commensal flora of the human mouth, skin, intestine and upper respiratory tract. A few *Streptococcus* species are pathogenic and responsible for many cases of meningitis, bacterial pneumonia, endocarditis and necrotizing fasciitis.[3,4,5,6]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
NR-34818 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Media:
Tryptic Soy broth or Todd-Hewitt broth or equivalent
Tryptic Soy agar or Tryptic Soy agar with 5% sheep blood or Todd-Hewitt agar or equivalent
Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO_2

Propagation:
1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 1 day.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Streptococcus* sp., Strain SPAR10, NR-34818."

Biosafety Level: 2
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:

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3. Musser, J. M. and S. A. Shelburne III. "A Decade of Molecular Pathogenomic Analysis of Group A *Streptococcus*." J. Clin. Invest. 119 (2009): 2455-2463. PubMed: 19729843.
4. Nobbs, A. H., R. J. Lamont and H. F. Jenkinson. "*Streptococcus* Adherence and Colonization." Microbiol. Mol. Biol. Rev. 73 (2009): 407-450. PubMed: 19721085.
5. Maisey, H. C., K. S. Doran and V. Nizet. "Recent Advances in Understanding the Molecular Basis of Group B *Streptococcus* Virulence." Expert. Rev. Mol. Med. 10 (2008): e27. PubMed: 18803886.
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