Leptospira hovindhougenii, Strain B5-022 (Serovar Osterbro)

Catalog No. NR-35360

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Leptospiraceae, Leptospira*
Species: *Leptospira hovindhougenii*
Serovar: Osterbro
Strain: B5-022
Original Source: *Leptospira hovindhougenii* (*L. hovindhougenii*), strain B5-022 (serovar Osterbro) was isolated in Denmark from a Norway rat (*Rattus norvegicus*).[1]
Comments: Strain B5-022 was deposited to BEI Resources as part of the *Leptospira* Genome Project at the J. Craig Ventor Institute's Genomic Sequencing Center for Infectious Diseases (GSCID). The whole genome shotgun sequence of *L. hovindhougenii*, strain B5-022 is available (GenBank: ANIJ00000000).

The genus *Leptospira* consists of thirteen pathogenic species, that cause the acute zoonotic-disease leptospirosis, and six free-living saprophytic species found in water and soil that do not infect animal hosts.[2,3] Leptospires are thin, motile, slow-growing obligate aerobe spirochetes with distinctive hooked ends and two axial flagella that causes the acute zoonotic-disease leptospirosis.[2,3]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Ellinghausen-McCullough-Johnson-Harrison Medium supplemented with 2.5% DMSO.

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

Packaging/Storage:
NR-35360 was packaged aseptically, in screw-capped plastic 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:
Ellinghausen-McCullough-Johnson-Harrison (EMJH) semisolid agar (0.15%) (ATCC® medium 2653) or equivalent

Incubation:
Temperature: 30°C
Atmosphere: Aerobic
Propagation:
1. Keep vial frozen until ready for use; thaw slowly.
2. Transfer the entire thawed aliquot into a single tube or jar of semisolid agar.
3. Incubate the tube or jar at 30°C for 10 to 18 days until an opaque disk of growth is visible several millimeters below the surface of the medium (Dinger's disk).

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Leptospira hovindhougenii*, Strain B5-022 (Serovar Osterbro), NR-35360."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:

1. http://www.ncbi.nlm.nih.gov/bioproject/178174
2. Evangelista, K. V. and J. Coburn. "*Leptospira* as an Emerging Pathogen: A Review of its Biology, Pathogenesis and Host Immune Responses." Future Microbiol. 9 (2010): 1413-1425. PubMed: 20860485.
3. Ko, A. I., C. Goarant and M. Picardeau. "*Leptospira*: The Dawn of the Molecular Genetics Era for an Emerging Zoonotic Pathogen." Nat. Rev. Microbiol. 7 (2009): 736-747. PubMed: 19756012.
4. Krøjgaard, L. H., et al. "High Prevalence of *Leptospira spp.* in Sewer Rats (*Rattus norvegicus*)." Epidemiol. Infect. 137 (2009): 1586-1592. PubMed: 19393116.

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