

Listeria ivanovii, Strain WSLC3009

Catalog No. NR-51326

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Listeriaceae*; *Listeria*

Species: *Listeria ivanovii* (previously referred to as *Listeria monocytogenes*, serovar 5)¹

Strain: WSLC3009 (also referred to as SLCC 4769)²

Original Source: *Listeria ivanovii* (*L. ivanovii*), strain WSLC3009 was isolated in 1976 from a human in Georgia, USA.³ This strain is a part of the Special Listeria Culture Collection (SLCC) assembled by Professor H. P. Seeliger at the University of Würzburg, Würzburg, Germany.^{2,3}

Comments: *L. ivanovii*, strain WSLC3009 is a commonly used strain for the propagation of bacteriophages and is used for studies of phage-host interactions because it is free of prophages. The complete genome of *L. ivanovii*, strain WSLC3009 is available (GenBank: [CP007172](#)).⁴

L. ivanovii is a Gram-positive, non-sporing, facultative intracellular bacillus.¹ It is a causative agent of listeriosis in ruminants, resulting in abortions, stillbirths and neonatal septicemias. While rare, there are reported cases of *L. ivanovii*-associated human infection in immunocompromised individuals.^{5,6}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:

NR-51326 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 Brain Heart Infusion broth or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

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: *Listeria ivanovii*, Strain WSLC3009, NR-51326."

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.

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References:

1. Seeliger, H. P. R., et al. "*Listeria ivanovii* sp. nov." Int. J. Syst. Bacteriol. 34 (1984): 336-337.
2. Loessner, M. J. and M. Busse. "Bacteriophage Typing of *Listeria* Species." Appl. Environ. Microbiol. 56 (1990): 1912-1918. PubMed: 2116763.
3. Haase, J. K., et al. "Revival of Seeliger's Historical 'Special *Listeria* Culture Collection'." Environ. Microbiol. 13 (2011): 3163-3171. PubMed: 22003999.
4. Klumpp, J., et al. "Genome Sequences of Three Frequently Used *Listeria monocytogenes* and *Listeria ivanovii* Strains." Genome Announc. 2 (2014). pii: e00404-14. PubMed: 24786957.
5. Vázquez-Boland, J. A., et al. "*Listeria* Pathogenesis and Molecular Virulence Determinants." Clin. Microbiol. Rev. 14 (2001): 584-640. PubMed: 11432815.
6. Guillet C., et al. "Human Listeriosis caused by *Listeria ivanovii*." Emerg. Infect. Dis. 16 (2010): 136-138. PubMed: 20031061.

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