**Product Information Sheet for NR-13229**

**Listeria monocytogenes, Strain FSL J1-194**

**Catalog No. NR-13229**

For research use only. Not for human use.

**Contributor and Manufacturer:**
NIH Biodefense and Emerging Infections Research Resources Repository

**Product Description:**
- **Bacteria Classification:** Listeriaceae, Listeria
- **Species:** Listeria monocytogenes
- **Strain:** FSL J1-194
- **Serotype:** 1/2a

**Original Source:** Listeria monocytogenes (L. monocytogenes), strain FSL J1-194 was isolated from a sporadic human listeriosis case and has a ribotype of DUP-1042B, which is linked to two human listeriosis outbreaks and is responsible for several sporadic human listeriosis outbreaks.

**Comment:** The complete genome of L. monocytogenes, strain FSL J1-194 has been drafted (GenBank: AARJ02000000). For more sequencing information, refer to the Broad Institute’s [Listeria Genome Project](https://www.broadinstitute.org/igv/)

**L. monocytogenes** is a Gram-positive, facultative intracellular bacterium that is extremely tolerant of external stresses (pH 3-12, temperatures ranging from 1°C to 45°C, and high salt). L. monocytogenes encompasses a diversity of strains with varied virulence and pathogenic potential. There are 13 serotypes (1/2a, 1/2b, 1/2c, 3a, 3b, 3c, 4a, 4b, 4c, 4d, 4e, 5 and 7) that have been isolated from mammalian, bird, fish and shellfish species as well as environmental sources. Of these, only 3 serotypes (1/2a, 1/2b, and 4b) are frequently isolated from outbreaks of human listeriosis. The most common cause of infection is through ingestion of contaminated foods, in particular milk, meat or vegetable products. The infective dose is unknown and varies with species.

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-13229 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:**
  - Brain Heart Infusion broth or equivalent
  - Tryptic Soy Agar with 5% Sheep Blood or equivalent
- **Incubation:**
  - Temperature: 37°C
  - Atmosphere: Anaerobic
- **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 tubes and plate at 37°C for 24 hours.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Listeria monocytogenes, Strain FSL J1-194, NR-13229.”

**Biosafety Level:** 2


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References:
1. Broad Institute *Listeria monocytogenes Database*

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