

***Listeria monocytogenes*, Strain FSL N1-017**

Catalog No. NR-13231

Product Description: *Listeria monocytogenes* (*L. monocytogenes*) is a Gram-positive, facultative intracellular bacterium that is extremely tolerant of external stresses. *L. monocytogenes*, strain FSL N1-017 was isolated from trout in brine and is not associated with any human disease cases.

Lot¹: 58580365

Manufacturing Date: 15APR2009

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Growth at 4°C ³ Motility at 26°C Motility at 35°C Biochemical characterization: Analytical profile index (API® <i>Listeria</i>) β-hemolysis ⁴ Catalase activity	Gram-positive rod Report results Positive Positive Report results Consistent with <i>L. monocytogenes</i> Positive Positive	Gram-positive rod Circular, entire, low convex, gray, opaque (Figure 1) Positive Positive Positive Consistent with <i>L. monocytogenes</i> Positive Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1420 bp)	Consistent with <i>L. monocytogenes</i>	Consistent with <i>L. monocytogenes</i> ⁵
PCR Assay of Extracted DNA 16S ribosomal RNA gene	~ 1500 bp amplicon	~ 1500 bp amplicon
Viability (post-freeze)²	Growth	Growth

¹NR-13231 was produced by inoculation of the deposited material into Nutrient broth and grown 24 hours at 37°C and aerobic atmosphere. Broth inoculum was added to Kolles (Tryptic Soy Agar with 5% defibrinated sheep blood) which were grown 24 hours at 37°C and aerobic atmosphere to produce this lot.

²24 hours at 37°C and aerobic atmosphere on Tryptic Soy Agar with 5% defibrinated sheep blood

³7 days in an aerobic atmosphere in Brain Heart Infusion broth (BD 237500) and on Tryptic Soy Agar with 5% defibrinated sheep blood plates

⁴Hemolytic activity on blood agar is generally used to distinguish *L. monocytogenes* from other *Listeria* species

⁵Also consistent with other *Listeria* species

Figure 1



Date: 02 MAR 2010

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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