

Listeria marthii, Strain FSL S4-696

Catalog No. NR-9580

Product Description: *Listeria marthii* (*L. marthii*), strain FSL S4-696 was isolated from a standing water puddle collected on July 9, 1998, in the Connecticut Hill Wildlife Management Area located in the Finger Lakes region of New York, USA.

Lot¹: 61834518

Manufacturing Date: 11JUL2013

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis on blood agar ^{2,3} Motility at 25°C Motility at 37°C Biochemical characterization: Analytical profile index (API® <i>Listeria</i>) Catalase	Gram-positive rods Report results Non-hemolytic Report results Report results Consistent with <i>Listeria</i> species Positive	Gram-positive rods Circular, low convex, entire, opaque, smooth and tan (Figure 1) Non-hemolytic Motile Non-motile Consistent with <i>Listeria</i> species ⁴ Positive
Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1490 bp)	Consistent with <i>L. marthii</i>	Consistent with <i>L. marthii</i> ⁵
Viability (post-freeze)²	Growth	Growth

¹NR-9580 was produced by inoculation of the deposited material into Brain Heart Infusion broth and grown 24 hours at 37°C in an aerobic atmosphere. After an additional passage under the above conditions, broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 24 hours at 37°C in an aerobic atmosphere to produce this lot. Purity of this lot was assessed for 7 days under propagation conditions.

²24 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

³*L. marthii* is reported to be non-hemolytic on blood agar; Graves, L. M., et al. "*Listeria marthii* sp. nov., Isolated from the Natural Environment, Finger Lakes National Forest." *Int. J. Syst. Evol. Microbiol.* 60 (2010): 1280-1288. PubMed: 19667380.

⁴*L. marthii* is a new species of *Listeria* and currently absent from most databases and literature utilized for identification.

⁵≥ 99% identical to *L. marthii*, strain FSL S4-696 (GenBank: EU545980)

Figure 1



Date: 09 JUL 2014

Signature:

Title:

Technical Manager, BEI Authentication or designee

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