

Listeria monocytogenes, Strain 53 XXIII

Catalog No. NR-105

(Derived from ATCC® 15313™)

Product Description: *Listeria monocytogenes* (*L. monocytogenes*) is a Gram-positive, facultative intracellular bacterium that is extremely tolerant of external stresses.

Lot¹: 3663815

Manufacturing Date: 08APR2004

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis Cellular morphology Colony morphology ² Biochemical characterization: Analytical profile index (API® Listeria) β-hemolysis ³ Catalase activity	Gram-positive rod Report results Consistent with <i>L. monocytogenes</i> Report results Positive	Gram-positive rod Circular, entire, convex, gray-white Consistent with <i>L. monocytogenes</i> Negative Positive
Viability (post-freeze)⁴	Growth	Growth

¹NR-105 was prepared by Brain heart Infusion broth (BD 237500) culture of ATCC® 15313™ (Lot: 985016) for 24 hours at 37°C and aerobic atmosphere.

²24 hours at 37°C and aerobic atmosphere in Tryptic Soy Agar (BD 236950) with 5% defibrinated sheep blood

³Hemolytic activity on blood agar is generally used to distinguish *L. monocytogenes* from other *Listeria* species, however this strain of *L. monocytogenes* is known to be non-hemolytic (Liu, D., et al. "Characteristics of Cell-Mediated, Anti-Listerial Immunity Induced by a Naturally Avirulent *Listeria monocytogenes* Serotype 4a Strain HCC23." *Arch. Microbiol.* 188 (2007): 251-256. PubMed: 17437086).

⁴24 hours at 37°C and aerobic atmosphere

Date: 26 AUG 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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