

Listeria monocytogenes, Strain Gibson

Catalog No. NR-4098

Product Description: *Listeria monocytogenes* (*L. monocytogenes*), strain Gibson was isolated in 1934 from meningeal pus collected *post mortem* from a fatal case of human meningitis in Edinburgh, Scotland, United Kingdom.

Lot¹: 61834821

Manufacturing Date: 10JUL2013

| TEST | SPECIFICATIONS | RESULTS |
|--|--|---|
| Phenotypic Analysis Cellular morphology Colony morphology ² Hemolysis ^{3,4} Motility (wet mount) ⁵ 25°C 37°C Biochemical tests: Analytical profile index (API [®] Listeria) Catalase activity ² | Gram-positive rods Report results β-hemolytic Motile Non-motile Consistent with <i>L. monocytogenes</i> Positive | Gram-positive rods Circular, low convex, entire, opaque, smooth and tan (Figure 1) β-hemolytic Motile Non-motile Consistent with <i>L. monocytogenes</i> Positive |
| Genotypic Analysis Sequencing of 16S ribosomal RNA gene (~ 1500 base pairs) RiboPrinter Microbial Characterization System | Consistent with <i>L. monocytogenes</i> Consistent with <i>L. monocytogenes</i> | Consistent with <i>L. monocytogenes</i> ⁶ Consistent with <i>L. monocytogenes</i> |
| Purity (post-freeze)⁷ | Growth consistent with <i>L. monocytogenes</i> | Growth consistent with <i>L. monocytogenes</i> |
| Viability (post-freeze)² | Growth | Growth |

¹NR-4098 was produced by Brain Heart Infusion broth culture of ATCC[®] 7644[™] (lot 3960854), which was incubated for 24 hours at 37°C in an aerobic atmosphere. Broth inoculum was added to kolles which were grown for 24 hours at 37°C in an aerobic atmosphere to produce this lot.

²24 hours at 37°C in an aerobic atmosphere on Brain Heart Infusion agar

³Hemolytic activity on blood agar is generally used to distinguish *L. monocytogenes* from other *Listeria* species.

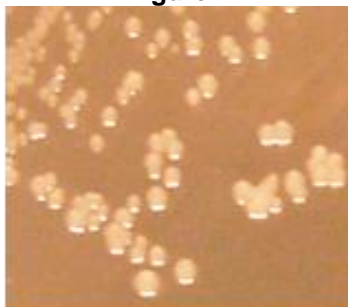
⁴46 hours at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood

⁵*L. monocytogenes* strains are highly flagellated and motile at low temperatures (30°C and below), and are typically non-motile at temperatures of 37°C or above [see, Peel, M., W. Donachie and A. Shaw. "Temperature-Dependent Expression of Flagella of *Listeria monocytogenes* Studied by Electron Microscopy, SDS-PAGE and Western Blotting." *J. Gen. Microbiol.* 134 (1988): 2171-2178. PubMed: 3150978.].

⁶Also consistent with other *Listeria* species

⁷Purity of this lot was assessed for 7 days on Brain Heart Infusion agar at 37°C.

Figure 1



Date: 24 OCT 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

