

***Listeria marthii*, Strain FSL S4-120**

Catalog No. NR-9579

For research only. Not for human use.

Contributor:

Lewis M. Graves, Foodborne and Diarrheal Diseases Branch, Division of Bacterial and Mycotic Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

Product Description:

Bacteria Classification: *Listeriaceae*, *Listeria*

Species: *Listeria marthii*

Type Strain: FSL S4-120

Original Source: Isolated from soil sample collected at Finger Lakes National Forest, New York

Comment: *Listeria marthii* (*L. marthii*) is a new species of *Listeria* that is named after Emeritus Professor Elmer H. Marth, for his contributions to *L. monocytogenes* research.

L. marthii are a Gram-positive, motile, nonsporing, aerobic, facultatively anaerobic bacteria. They are non-hemolytic and exhibit the general characteristics of the genus *Listeria*.¹

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-9579 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 Condition:

Media:

Brain Heart Infusion Broth
Tryptic Soy Agar with 5% defibrinated sheep blood or Brain Heart Infusion Agar

Incubation:

Temperature: 37°C

Atmosphere: Aerobic

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 marthii*, Strain FSL S4-120, NR-9579."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Rocourt, J. and C. Buchrieser. "The Genus *Listeria* and *Listeria monocytogenes*: Phylogenetic Position, Taxonomy, and Identification." In: E. T. Ryser and E. H. Marth, *Listeria, Listeriosis, and Food Safety* (3rd ed.) New York: Marcel Dekker, Inc., pp 1-20.
2. Liu, D., et al. "Toward an Improved Laboratory Definition of *Listeria monocytogenes* Virulence." *Int. J. Food Microbiol.* 118 (2007): 101-115. PubMed: 17727992.
3. Murray, E. G. "A Retrospect of Listeriosis." *Gray ML. Second Symposium on Listeric Infection.* Bozeman, MT: Montana State College; 1963. pp. 2-4.
4. Glaser, P., et al. "Comparative Genomics of *Listeria* Species." *Science* 294 (2001): 849-852. PubMed: 11679669.

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