

***Listeria marthii*, Strain FSL S4-710**

Catalog No. NR-9581

For research only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Listeriaceae*, *Listeria*

Species: *Listeria marthii*

Strain: FSL S4-710

Original Source: *Listeria marthii* (*L. marthii*), strain FSL S4-710 was isolated from flowing run-off water collected on July 9, 1998, in the Connecticut Hill Wildlife Management Area, New York, USA.¹

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 is a Gram-positive, motile, non-spore-forming, aerobic to facultatively anaerobic, rod-shaped bacterium found in the natural environment.¹ *L. marthii* is a nonpathogenic *Listeria* species which lacks the *prfA* virulence genes cluster and is non-hemolytic on blood agar.^{1,2}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 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-9581 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 or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or equivalent

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 tube, slant and/or plate at 37°C for 24 to 48 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Listeria marthii*, Strain FSL S4-710, NR-9581."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. 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.
2. den Bakker, H. C., et al. "A Population Genetics-Based and Phylogenetic Approach to Understanding the Evolution of Virulence in the Genus *Listeria*." Appl. Environ. Microbiol. 76 (2010): 6085-6100. PubMed: 20656873.

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