

Genomic DNA from *Listeria monocytogenes*, Strain 10403S

Catalog No. NR-13340

For research use only. Not for human use.

Contributor and Manufacturer:

BEI Resources

Product Description:

Genomic DNA was extracted from a preparation of *Listeria monocytogenes* (*L. monocytogenes*), strain 10403S.

L. monocytogenes, strain 10403S, serotype 1/2a is a streptomycin-resistant isolate of strain 10403, which was isolated from a human skin lesion obtained by Montana State University.¹⁻³ It is widely used as a laboratory control strain.^{4,5} The complete genome of *L. monocytogenes*, strain 10403S is available (GenBank: [CP002002](#)).¹

NR-13340 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:

Each vial contains 0.7 µg to 1.5 µg of bacterial genomic DNA in 10 mM Tris-HCl, pH 8 - 8.5. The concentration is shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-13340 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Note: NR-13340 was not provided in ethylenediaminetetraacetic acid (EDTA); for long-term storage, EDTA may be added to a final concentration of 0.1 mM to 1 mM.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the BEI Resources, NIAID, NIH: Genomic DNA from *Listeria monocytogenes*, Strain 10403S, NR-13340."

Biosafety Level: 1

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.

Disclaimers:

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References:

1. [Broad Institute *Listeria monocytogenes* Database](#)
2. Bishop, D. K. and D. J. Hinrichs. "Adoptive Transfer of Immunity to *Listeria monocytogenes*. The Influence of *in vitro* Stimulation on Lymphocyte Subset Requirements." J. Immunol. 139 (1987): 2005-2009. PubMed: 3114382.
3. Edman, D. C., M. B. Pollock and E. R. Hall. "*Listeria monocytogenes* L Forms: I. Induction Maintenance and Biological Characteristics." J. Bacteriol. 96 (1968): 352-357. PubMed: 4970647.
4. Angelakopoulos, H., et al. "Safety and Shedding of an Attenuated Strain of *Listeria monocytogenes* with a Deletion of actA/plcB in Adult Volunteers: A Dose Escalation Study of Oral Inoculation." Infect. Immun. 70 (2002): 3592-35601. PubMed: 12065500.
5. Roberts, A. J., et al. "Some *Listeria monocytogenes* Outbreak Strains Demonstrate Significantly Reduced Invasion, *inA* Transcript Levels, and Swarming Motility *in vitro*." Appl. Environ. Microbiol. 75 (2009): 5647-5658. PubMed: 19581477.

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