Genomic DNA from *Rickettsia rickettsii*, Strain Bitterroot

Catalog No. NR-48826

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Genomic DNA was extracted from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with *Rickettsia rickettsii (R. rickettsii)*, strain Bitterroot. *R. rickettsii*, strain Bitterroot was isolated from *Dermacentor andersoni* ticks collected in Bitterroot Valley, Montana, USA, in 1945.[1] The complete genome sequence of *R. rickettsii,* strain Bitterroot (also known as strain R)[1,2] has been determined (GenBank: CP006009).[2]

NR-48826 has been qualified for PCR applications by amplification of approximately 1500 base pairs of the 16S ribosomal RNA gene.

Material Provided:
Each vial contains 100 µL of bacterial genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The bacterial genomic DNA is in a background of cellular nucleic acids. The vial should be centrifuged prior to opening.

Packaging/Storage:
NR-48826 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from *Rickettsia rickettsii,* Strain Bitterroot, NR-48826."

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. Bell, E. J. and E. G. Pickens. "A Toxic Substance Associated with the *Rickettsias* of the Spotted Fever Group." J. Immunol. 70 (1953): 461-472. PubMed: 13052922.
2. Clark, T. R., et al. "Comparative Genome Sequencing of *Rickettsia rickettsii* Strains that Differ in Virulence." Infect. Immun. 83 (2015): 1568-1576. PubMed: 25644009.

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