**Bartonella quintana**, Strain JK68

**Catalog No.** NR-31829

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

- **Bacterial Classification:** Bartonellaceae, Bartonella
- **Species:** Bartonella quintana
- **Strain:** JK68
- **Original Source:** Bartonella quintana (B. quintana), strain JK68 was isolated in October 2005 from the blood of a human patient with subcutaneous bacillary angiomatosis nodules in San Francisco, California, USA.
- **Comments:** B. quintana, strain JK68 is part of a Bartonella Group Database Sequencing Project at the Broad Institute. The complete genome for B. quintana, strain JK68 is available (GenBank: AHPD00000000).

**Bartonella** spp. are fastidious, slow-growing, Gram-negative rods that are dependent on blood or hemin for growth. **Bartonella** exist in two niches — the gut of arthropod vectors and the bloodstream of the mammalian reservoir. They are incapable of living freely in the environment (with the exception of living in excreted feces from the arthropod vectors they reside in). **Bartonella** infection of the mammalian host occurs when the organisms gain entry through feces that is deposited at the site of an infected arthropod bite. The mammal then self-inoculates by scratching the bite. Well known human maladies that result from **Bartonella** spp. infection are Cat Scratch Disease (B. henselae, cat flea), Trench Fever (B. quintana, human body louse), and Carrión’s Disease (B. bacilliformis, sandfly). Host specificity has been observed for **Bartonella** spp. when both arthropod and mammalian hosts are known. Known virulence factors include a type IV secretion system, a family of hemin binding protein and outer membrane adhesions.

In addition to Trench Fever, B. quintana infections cause endocarditis, bacillary angiomatosis-peliosis, and chronic bacteremia in humans and have been associated with subcutaneous and deep soft-tissue disease and lytic bone lesions.

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Heart Infusion broth supplemented with 10% glycerol.

**Note:** The recommended amount of cryopreservative for **Bartonella** species is 12.5% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-31829 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 Conditions:**

- **Media:** Heart Infusion broth or equivalent
- **Bartonella** Chocolate agar or Tryptic Soy agar with 5% defibrinated sheep blood or Columbia blood agar or equivalent
- **Incubation:** Temperature: 37°C
- **Atmosphere:** Aerobic with 5% CO₂
- **Propagation:**
  1. Keep vial frozen until ready for use; thaw slowly.
  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 for 7 days.

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Bartonella quintana, Strain JK68, NR-31829.”

**Biosafety Level:** 2


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