**Bartonella sp., Strain E1-105**

**Catalog No. NR-31035**

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**For research use only. Not for human use.**

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

**Product Description:**

**Bacteria Classification:** Bartonellaceae, Bartonella

**Species:** Bartonella sp. (Deposited as new taxon Bartonella breitschwerdii)

**Strain:** E1-105

**Original Source:** Bartonella sp., strain E1-105, was isolated in January 2008 from a blood clot found in a wild straw-colored fruit bat (Eidolon helvum) in Moitti Village, Kenya. 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. Genome sequences for B. quintana, strain Toulouse, and B. henselae, strain Houston-1, have been completed.

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Heart Infusion broth supplemented with 12.5% glycerol.

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

**Packaging/Storage:**

NR-31035 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

**Incubation:**
Bartonella Chocolate agar or Tryptic Soy agar with 5% defibrinated rabbit blood or equivalent

**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 at 37°C for 7 or 8 days.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Bartonella sp., Strain E1-105, NR-31035.”

**Biosafety Level:** 2


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References:

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