**Bartonella tamiae**, Strain Th307

**Catalog No. NR-31059**

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

**Product Description:**
*Bacteria Classification:* Bartonellaceae, Bartonella
*Species:* Bartonella tamiae
*Strain:* Th307

**Original Source:** Bartonella tamiae (B. tamiae), strain Th307 was isolated in March 2007 from a blood clot of an asymptomatic 41-year-old female following possible rat exposure in Khon Kaen Province, Thailand.1

**Comments:** B. tamiae, strain Th307 is part of a Bartonella Group Database Sequencing Project at the Broad Institute. The complete genome for B. tamiae, strain Th307 is available (GenBank: AIMG00000000).4

*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.6 Known virulence factors include a type IV secretion system, a family of hemin binding protein and outer membrane adhesions.7,8

*B. tamiae*, strain TH307 has produced disease in mouse models of infection that are consistent with clinical disease in human patients.9

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in 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-31059 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 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 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 tamiae, Strain Th307, NR-31059.”

**Biosafety Level:** 2


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References:
1. Kirby, J. E., Personal Communication.

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