**Ehrlichia chaffeensis, Strain St. Vincent**

**Catalog No. NR-46445**
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**For research use only. Not for human use.**

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

**Product Description:**

**Bacteria Classification:** Anaplasmataceae, Ehrlichia  
**Species:** Ehrlichia chaffeensis  
**Strain:** St. Vincent

Original Source: *Ehrlichia chaffeensis* (E. chaffeensis), strain St. Vincent was isolated in 1996 from the blood of a male patient in Georgia, USA, who was bitten by a tick and subsequently developed fatal human monocytic ehrlichiosis (HME).  

**Comments:** The complete genome of *E. chaffeensis*, strain St. Vincent has been sequenced (GenBank: CP007478).

*E. chaffeensis* is a Gram-negative, obligate intracellular pathogen of eukaryotic cells and belongs to the alpha subdivision of Proteobacteria. It was originally classified in the family *Rickettsiaceae*, but subsequently reassigned to the family *Anaplasmataceae*, both families belonging to the order *Rickettsiales*.  

**Material Provided:**
Each vial contains approximately 1 mL of cell lysate and supernatant from *Canis familiaris* macrophage-monocyte cells infected with *E. chaffeensis*, strain St. Vincent, supplemented with fetal bovine serum and DMSO.

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

**Packaging/Storage:**
NR-46445 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. The product should be stored at -130°C or colder, preferably in the vapor phase of a liquid nitrogen freezer. If liquid nitrogen storage facilities are not available, frozen cryovials may be stored at -70°C or colder for approximately one week. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Host:** *Canis familiaris* macrophage-monocyte cells (DH82; ATCC® CRL-10389™)

**Growth Medium:** Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate and 1500 mg per L sodium bicarbonate, supplemented with 5% to 10% fetal bovine serum, or equivalent; optionally, the growth medium may also be supplemented with cycloheximide and additional L-glutamine.

**Infection:** Cells should be 60% to 80% confluent

**Incubation:** 10 to 11 days at 37°C and 5% CO2

**Cytopathic Effect:** Cell enlargement, rounding, detachment, granularity or other toxicity may or may not be observed. It is recommended that replication of *E. chaffeensis* be confirmed by PCR, IFA or staining of morulae with Diff-Quik (modified Giemsa stain).

**Citation:**
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: *Ehrlichia chaffeensis*, Strain St. Vincent, NR-46445.”

**Biosafety Level:** 2


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References:
1. Rikihisa, Y., Personal Communication.

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