**Product Information Sheet for NR-46443**

**Ehrlichia chaffeensis, Strain Heartland**

**Catalog No. NR-46443**

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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:** Heartland

**Original Source:** Ehrlichia chaffeensis (E. chaffeensis), strain Heartland was isolated in 1999 from the blood of a human with acute fatal monocytic ehrlichiosis (HME) in Nebraska, USA. 1, 2

**Comments:** The complete genome sequence of E. chaffeensis, strain Heartland has been determined (GenBank: CP007473).

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from Canis familiaris macrophage-monocyte cells infected with E. chaffeensis, strain Heartland, supplemented with 45% fetal bovine serum and 5% DMSO.

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

**Packaging/Storage:**

NR-46443 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 (DH-82; 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% fetal bovine serum or equivalent

**Infection:** Cells should be 60% to 65% confluent

**Incubation:** 7 to 9 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). 3, 4

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Ehrlichia chaffeensis, Strain Heartland, NR-46443.”

**Biosafety Level: 2**


**Disclaimers:**

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

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