

Ehrlichia chaffeensis, Strain Liberty

Catalog No. NR-46446

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Product Description: Cell lysate and supernatant from *Canis familiaris* macrophage-monocyte cells¹ infected with *Ehrlichia chaffeensis* (*E. chaffeensis*), strain Liberty, containing 13% fetal bovine serum and 2% DMSO (final concentrations).

Lot²: 62795201

Manufacturing Date: 19AUG2014

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Identification by Infectivity in DH82 Cells ¹ | Report results | Cell rounding and granularity |
| Identification by Sequencing of Species-Specific Region (897 nucleotides) | Consistent with <i>E. chaffeensis</i> , strain Liberty | 100% identity with <i>E. chaffeensis</i> , strain Liberty (GenBank: CP007476) |
| Titer by TCID ₅₀ Assay ^{3,4} in DH82 Cells ¹ by IFA ⁵ | Report results | 5.0 × 10 ⁵ TCID ₅₀ per mL |
| Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Brucella agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂ | No growth No growth No growth No growth No growth No growth No growth | No growth No growth No growth No growth No growth No growth No growth |
| Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid | None detected None detected | None detected None detected |

¹DH82 cells: ATCC® CRL-10389™

²Grown in 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 (ATCC® 30-2002), supplemented with cycloheximide (Sigma C 4859), 10% fetal bovine serum (ATCC® 30-2020), and an additional 2 mM L-glutamine (Corning® Mediatech 25-005-CL) for 6 days at 37°C with 5% CO₂

³The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁴14 days at 37°C and 5% CO₂

⁵Using *Ehrlichia chaffeensis* IFA IgG reagent kit (Fuller Laboratories ECHG-120)

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 06 APR 2016

Signature:



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