

***Ehrlichia chaffeensis*, Strain Osceola**

Catalog No. NR-46447

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Product Description: Cell lysate and supernatant from *Canis familiaris* macrophage-monocyte cells¹ infected with *Ehrlichia chaffeensis* (*E. chaffeensis*), strain Osceola, containing 45% fetal bovine serum and 5% DMSO (final concentrations).

Lot²: 62795200

Manufacturing Date: 10FEB2016

TEST	SPECIFICATIONS	RESULTS
Identification by Indirect Fluorescent Antibody (IFA) Assay ³	Fluorescence observed	Fluorescence observed
Identification by Sequencing of Species-Specific Region (899 nucleotides)	Consistent with <i>E. chaffeensis</i> , strain Osceola	100% identity with <i>E. chaffeensis</i> , strain Osceola (GenBank: CP007477)
Titer by TCID ₅₀ Assay ^{4,5} in DH82 Cells ¹ by IFA ³	Report results	8.9 × 10 ⁶ 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 Eagle's Minimum Essential Medium with Earle's salts, non-essential amino acids, L-glutamine and sodium pyruvate (ATCC® 30-2003) supplemented with 5% fetal bovine serum (ATCC® 30-2020, heat inactivated at 56°C for 30min) for 7 days at 37°C and 5% CO₂.

³Using *Ehrlichia chaffeensis* IFA IgG reagent kit (Fuller Laboratories ECHG-120)

⁴The 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.

⁵13 days at 37°C and 5% CO₂

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

Date: 03 JAN 2017

Signature:



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