

**Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone 3A7 (produced *in vitro*)**

**Catalog No. NR-42018**

This reagent is the property of the U.S. Government.

**Product Description:** Mouse monoclonal antibody prepared against the H1 hemagglutinin (HA) protein of the A/California/04/2009 (H1N1)pdm09 strain of influenza virus was affinity purified from clone 3A7 hybridoma supernatant using protein G magnetic beads.

**Lot: 61715288**

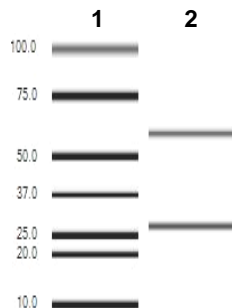
**Manufacturing Date: 05JUL2013**

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2ak
Experion Pro260 Analysis	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 97.7% pure
Concentration by Spectrophotometer at OD <sub>280</sub>	Report results	0.9 mg per mL
<b>Functional Activity</b> Indirect Immunofluorescence Assay with A/California/04/2009 (H1N1)pdm09-infected MDCK cells <sup>1</sup> (Figure 2)  Neutralization of A/California/04/2009 (H1N1)pdm09 infectivity in MDCK cells <sup>2</sup>	Fluorescence observed  No neutralization observed	Fluorescence observed  No neutralization observed
<b>Sterility</b>	0.22 µm filter-sterilized	0.22 µm filter-sterilized

<sup>1</sup>MDCK cells (ATCC® CCL-34™) were infected with influenza virus A/California/04/2009 (H1N1)pdm09 (BEI Resources NR-13658) at an MOI of 0.01 and stained 2 days later with NR-42018 at dilutions of 1:50 and 1:500, followed by FITC-conjugated goat anti-mouse IgG F(ab')<sub>2</sub> fragment (Millipore 5008).

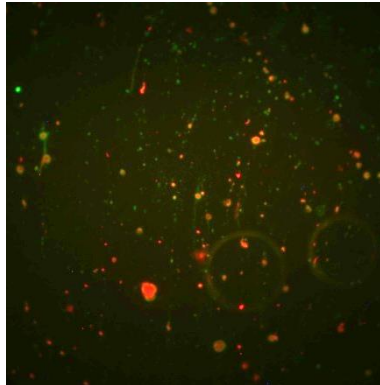
<sup>2</sup>100 TCID<sub>50</sub> of influenza virus A/California/04/2009 (H1N1)pdm09 (BEI Resources NR-13658) was pre-incubated with NR-42018 at dilutions of 1:100 and 1:500 and then used to inoculate cultures of MDCK cells (ATCC® CCL-34™). Cells were monitored for the presence of cytopathic effects for three days, and culture supernatants were tested for the presence of hemagglutinating activity. BEI Resources NR-19866 (Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone S-OIV-5H7) and NR-15511 (Monoclonal Anti-Dengue Virus Type 3 Envelope Protein, Clone E2) were used as positive and negative controls, respectively.

**Figure 1**



Lane 1: MW Markers (kDa)  
Lane 2: NR-42018

Figure 2



NR-42018, 1:50 dilution

**Date:** 24 MAR 2014

**Signature:**



**Title:** Technical Manager, BEI Authentication or designee

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