

Certificate of Analysis for NR-13455

Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/South Carolina/1/1918 (H1N1), Clone 58C4 (produced *in vitro*)

Catalog No. NR-13455

Product Description: Antibody Class: IgG2bκ

Mouse monoclonal antibody prepared against the H1 hemagglutinin (HA) of influenza virus, A/South Carolina/1/1918 (H1N1) was purified from clone 58C4 hybridoma supernatant by protein G affinity chromatography.

Lot: 59046790

Manufacturing Date: 29MAR2010

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2bκ
Experion Pro260 Analysis	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 100% pure
Concentration by Spectrophotometer at OD ₂₈₀	Report results	1.1 mg/mL
Functional Activity Hemagglutination inhibition assay ¹ Indirect immunofluorescence assay ² Western blot assay ³	Report results Report results Report results	Reactive Fluorescence observed Not reactive ⁴
Sterility	0.22 μm filter-sterilized	0.22 μm filter-sterilized

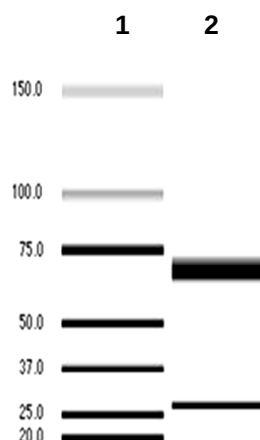
¹Using 0.5 mg/mL of NR-13455 and 1918 HA(SC)/NA virus-like particles, which are described in Yu, X., et al., "Neutralizing Antibodies Derived from the B cells of 1918 Influenza Pandemic Survivors." *Nature* 455 (2008): 532-536. PubMed: 18716625.

²Using 10 μg/mL of NR-13455 and MDCK cells expressing HA from influenza virus, A/South Carolina/1/1918 (H1N1)

³Using 1 μg/mL of NR-13455 and a lysate of 293T cells expressing HA from influenza virus, A/South Carolina/1/1918 (H1N1)

⁴A faint band corresponding to HA0 becomes visible after a long exposure

Figure 1 – Experion Pro260 Analysis



Lane 1: MW Markers (kDa)
Lane 2: NR-13455

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Date: 19 NOV 2010

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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