

**Kilbourne F78: A/Beijing/32/1992 (HA, NA) x A/Puerto Rico/8/1934 (H3N2),  
Reassortant X-117**

**Catalog No. NR-3529**

**Product Description:** Pooled allantoic fluid from specific pathogen free (SPF) embryonated chicken eggs<sup>1</sup> infected with reassortant influenza A virus, A/Beijing/32/1992 (HA, NA) x A/Puerto Rico/8/1934 (H3N2)

**Lot<sup>2,3</sup>: 70008670**

**Manufacturing Date: 07SEP2017**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity Using Embryonated Chicken Eggs<sup>1</sup></b> Hemagglutination activity using allantoic fluid from infected eggs and 0.5% chicken red blood cells	Positive	Positive
<b>Sequencing of Hemagglutinin and Matrix Coding Regions</b> Hemagglutinin (684 nucleotides)  Matrix (926 nucleotides)	Consistent with A/Beijing/32/1992 (H3N2)  Consistent with A/Puerto Rico/8/1934 (H1N1)	100% identity with A/Beijing/32/1992 (H3N2) (GenBank: CY033606) <sup>4</sup> 100% identity with A/Puerto Rico/8/1934 (H1N1) (GenBank: CY105897) <sup>5</sup>
<b>Titer by CEID<sub>50</sub> Assay<sup>6,7</sup> in Embryonated Chicken Eggs<sup>1</sup></b>	Report results	1.6 × 10 <sup>9</sup> CEID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>8</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>11-day-old SPF Embryonated Chicken Eggs acquired from Charles River Avian Vaccine Services, North Franklin, Connecticut

<sup>2</sup>Derived from NIAID Catalog No. V-331-0E5120

<sup>3</sup>Grown in the allantoic cavity of embryonated chicken eggs<sup>1</sup> for 2 days at 35°C in a humidified chamber

<sup>4</sup>The sequence of the hemagglutinin gene from Reassortant X-117 has also been deposited to the NCBI database (GenBank: CY036807) and is identical to that of the parental A/Beijing/32/1992 virus.

<sup>5</sup>The sequence of the matrix gene from Reassortant X-117 has also been deposited to the NCBI database (GenBank: CY036808) and is identical to that of the parental A/Puerto Rico/8/1934 virus.

<sup>6</sup>The Chicken Embryo Infectious Dose 50% (CEID<sub>50</sub>) is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the inoculated embryonated chicken eggs, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the CEID<sub>50</sub> provides a measure of the infectious titer (or infectivity) of a virus preparation.

<sup>7</sup>2 days at 35°C in a humidified chamber

<sup>8</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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