

Research Use Only. Not for use in diagnostic procedures.

## HA (Hemagglutinin) Detection Kit

**Product No.:** 6760612C/M/R

**Lot No.:** 2743043

### Material Provided

<b>Format:</b>	6760612C	500 Assay Points
	6760612M	10000 Assay Points
	6760612R	50000 Assay Points

Note: The number of assay points is based on a final bead concentration of 20 µg/mL in a 25 µL/well reaction volume.

**Manufacturing Date:** July 9, 2020

### Kit Components:

Component	6760612C	6760612M	6760612R
<b>Anti-HA Acceptor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Kathon, pH 7.4</b>	1 x 50 µL (6760126)	1 x 1 mL (6760127)	1 x 5 mL (6760127B)
<b>Streptavidin Donor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Kathon, pH 7.4</b>	1 x 50 µL (6760001)	1 x 1 mL (6760002)	1 x 5 mL (6760002B)
<b>Biotinylated-PEG-HA at 0.5 µM in 25mM Hepes, 0.05% Kathon, pH 7.4</b>	1 x 50 µL (6760274)	1 x 50 µL (6760274)	1 x 50 µL (6760274)
<b>10x Buffer : 250 mM Hepes, 1 M NaCl, 0.05% Kathon, pH 7.4</b>	1 x 1.5 mL (6760020G)	1 x 1.5 mL (6760020G)	1 x 1.5 mL (6760020G)

### Product Information

<b>Antibody/Protein:</b>	The HA antibody is a mouse monoclonal antibody (IgG <sub>2b</sub> K) which recognizes the HA nonapeptide sequence YPYDVPDYA derived from the human influenza virus hemagglutinin protein (amino acids 98-106).
<b>Stability:</b>	This product is stable for at least <b>15 months</b> from the manufacturing date if used and stored under recommended conditions.
<b>Storage Conditions:</b>	Store undiluted at 4°C protected from light. Freeze-thaw is not recommended and can cause the beads to form aggregates.
<b>Recommended use:</b>	AlphaScreen® Donor beads are light-sensitive. All Alpha assays using the Donor beads should be performed under subdued laboratory lighting (< 100 lux). Green filters (LEE 090 filters (preferred) or Roscolux filters #389 from Rosco) can be applied to light fixtures.

For additional information on running AlphaScreen® assays or on potential interfering compounds, please visit our website: [www.perkinelmer.com/AlphaTech](http://www.perkinelmer.com/AlphaTech)

## Quality Control

AlphaScreen® maximum signal, minimum signal and EC<sub>50</sub> are determined using a biotinylated-PEG-HA titration assay performed on an EnVision® HTS Alpha detection instrument. We certify that these results meet our requirements.

<u>TEST</u>	<u>RESULTS</u>
Maximum signal	22,200
Minimum signal	754
EC <sub>50</sub>	2.13 nM

## Recommended Assay Conditions

Note: This protocol provides a method to verify kit performance and is not representative of an assay. Sufficient biotinylated-probe and 10x buffer is provided to perform 3 titration curves in triplicate as described.

- 1x Buffer:** Add 500 µL 10x buffer to 4.5 mL Milli-Q® H<sub>2</sub>O (or equivalent). Add 5 mg BSA (0.1% final concentration) and adjust pH to 7.4.
- Acceptor Beads:** Add 5 µL Anti-HA Acceptor beads to 495 µL 1x buffer.
- Donor beads:** Add 5 µL Streptavidin Donor beads to 495 µL 1x buffer.
- Biotinylated-probe:** From the 0.5 µM biotin-PEG-HA, prepare a ½ log dilution series (0.15 µM to 15 pM) in 1x buffer. Include a buffer only control.

### Titration Protocol:

To a white opaque 384-well Optiplate:

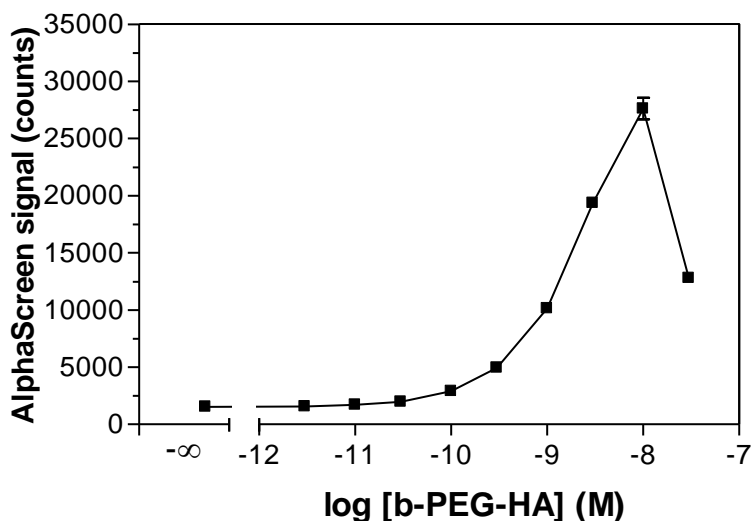
- 1- Add 5 µL biotinylated-PEG-HA dilutions (from lowest to highest concentration).
- 2- Add 10 µL of Anti-HA Acceptor beads.

Incubate in the dark at room temperature for 30 minutes.

- 3- Add 10 µL of Streptavidin Donor beads.

Incubate in the dark at room temperature for 60 minutes and analyze on your AlphaScreen® detection reader.

## Product Typical Data



**Figure 1: Biotinylated-probe titration assay**  
384-well biotinylated-PEG-HA titration curve (25  $\mu$ L final volume; Reader: Envision HTS Alpha).

**Note:** AlphaScreen<sup>®</sup> signal will vary depending on instrument detection protocol, incubation temperature and incubation time.

## Suggested Materials and Instrumentation

Please visit our website

[www.perkinelmer.com/AlphaTech](http://www.perkinelmer.com/AlphaTech)

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