

Research Use Only. Not for use in diagnostic procedures.

Histidine (Nickel Chelate) Detection Kit

Product No.: 6760619C/M/R

Lot No.: 2834929

Material Provided

Format:	6760619C	500 Assay Points
	6760619M	10000 Assay Points
	6760619R	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: March 1, 2021

Kit Components:

Component	6760619C	6760619M	6760619R
Nickel Chelate Acceptor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Kathon, pH 7.4	1 x 50 µL (6760140)	1 x 1 mL (6760141)	1 x 5 mL (6760141B)
Streptavidin Donor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Kathon, pH 7.4	1 x 50 µL (6760001)	1 x 1 mL (6760002)	1 x 5 mL (6760002B)
Biotinylated-(His)₆ at 0.5 µM in 25mM Hepes, 0.05% Kathon, 0.1% BSA, pH 7.4	1 x 50 µL (6760302)	1 x 50 µL (6760302)	1 x 50 µL (6760302)
10x Buffer : 250 mM Hepes, 1 M NaCl, 0.05% Kathon, pH 7.4	1 x 1.5 mL (6760020G)	1 x 1.5 mL (6760020G)	1 x 1.5 mL (6760020G)

Product Information

Antibody/Protein:	The Nickel Chelate Acceptor beads are coated with chelated nickel which binds (His) ₆ tagged proteins.
Stability:	This product is stable for at least 12 months from the manufacturing date if used and stored under recommended conditions.
Storage Conditions:	Store undiluted at 4°C protected from light. Freeze-thaw is not recommended and can cause the beads to form aggregates.
Recommended use:	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

Quality Control

AlphaScreen® maximum signal, minimum signal and EC₅₀ are determined using a biotinylated-(His)₆ 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	865,608
Minimum signal	586
EC ₅₀	1.56 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® H₂O (or equivalent). Add 5 mg BSA (0.1% final concentration) and adjust pH to 7.4.

Acceptor Beads: Add 5 µL Nickel chelate 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 biotinylated-(His)₆, prepare a ½ log dilution series (0.5 µM to 50 pM) in 1x buffer. Include a buffer only control.

Titration Protocol:

To a white opaque 384-well Optiplate:

- 1- Add 5 µL biotinylated-(His)₆ dilutions (from lowest to highest concentration).
- 2- Add 10 µL of Nickel chelate 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

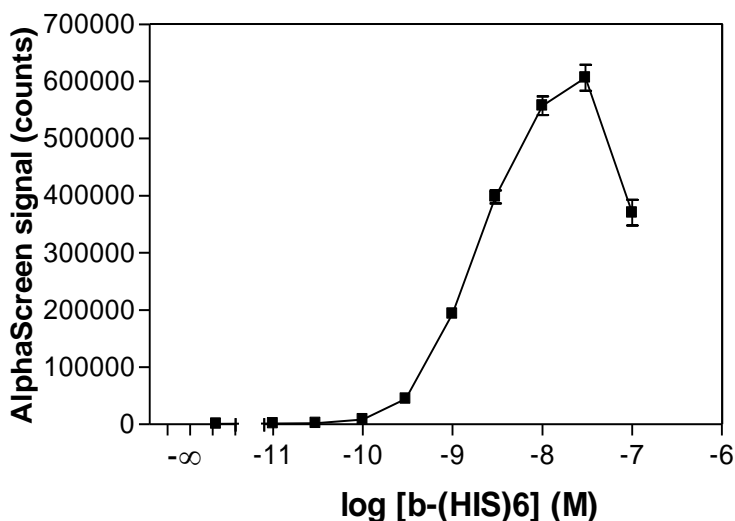


Figure 1: Biotinylated-probe titration assay
384-well biotinylated-(His)₆ titration curve (25 μ L final volume; Reader: Envision HTS Alpha).

Note: AlphaScreen[®] 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

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