

Research Use Only. Not for use in diagnostic procedures.

## Histidine (Nickel Chelate) Detection Kit

Product No.: 6760619C/M/R

Lot No.: 2793784

### Material Provided

|                |          |                    |
|----------------|----------|--------------------|
| <b>Format:</b> | 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:** November 13, 2020

### Kit Components:

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

### Product Information

|                            |   |
|----------------------------|---|
| <b>Antibody/Protein:</b>   | The Nickel Chelate Acceptor beads are coated with chelated nickel which binds (His) <sub>6</sub> tagged proteins.   |
| <b>Stability:</b>          | This product is stable for at least <b>12 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-(His)<sub>6</sub> titration assay performed on an EnVision® HTS Alpha detection instrument. We certify that these results meet our requirements.

| <u>TEST</u>            | <u>RESULTS</u> |
|------------------------|----------------|
| <b>Maximum signal</b>  | 723,935 cps    |
| <b>Minimum signal</b>  | 602 cps        |
| <b>EC<sub>50</sub></b> | 0.90 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 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)<sub>6</sub>, 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:

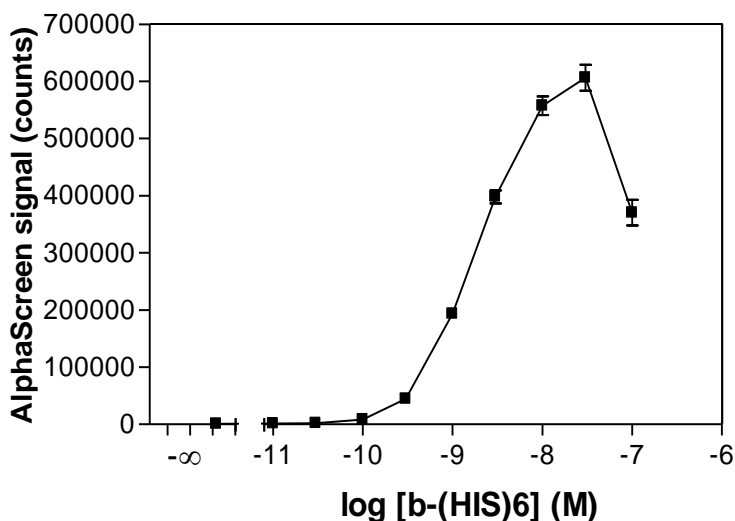
- 1- Add 5 µL biotinylated-(His)<sub>6</sub> dilutions (from lowest to highest concentration).
- 2- Add 10 µL of Nickel chelate Acceptor beads.

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)<sub>6</sub> 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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