

Research Use Only. Not for use in diagnostic procedures.

Histidine (Nickel Chelate) Detection Kit

Product No.: 6760619C/M/R

Lot No.: 2727802

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: June 17, 2020

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	600,573
Minimum signal	630
EC ₅₀	1.23 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

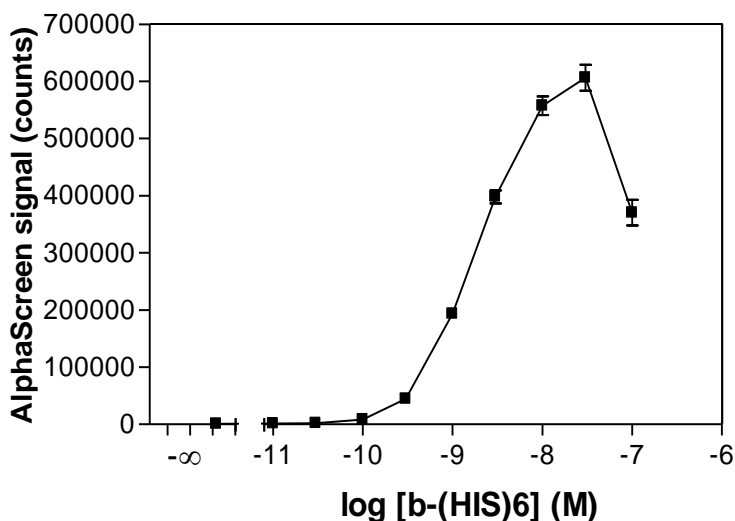


Figure 1: Biotinylated-probe titration assay
384-well biotinylated-(His)₆ titration curve (25 μ L final volume; Reader: Envision HTS Alpha).

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

This product is not for resale or distribution except by authorized distributors.

LIMITED WARRANTY: PerkinElmer BioSignal Inc. warrants that, at the time of shipment, the products sold by it are free from defects in material and workmanship and conform to specifications which accompany the product. PerkinElmer BioSignal Inc. makes no other warranty, express or implied with respect to the products, including any warranty of merchantability or fitness for any particular purpose. Notification of any breach of warranty must be made within 60 days of receipt unless otherwise provided in writing by PerkinElmer BioSignal Inc. No claim shall be honored if the customer fails to notify PerkinElmer BioSignal Inc. within the period specified. The sole and exclusive remedy of the customer for any liability of PerkinElmer BioSignal Inc. of any kind including liability based upon warranty (express or implied whether contained herein or elsewhere), strict liability contract or otherwise is limited to the replacement of the goods or the refunds of the invoice price of goods. PerkinElmer BioSignal Inc. shall not in any case be liable for special, incidental or consequential damages of any kind.

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

Copyright ©2009, PerkinElmer, Inc. All rights reserved. PerkinElmer[®] is a registered trademark of PerkinElmer, Inc. All other trademarks are the property of their respective owners.