

Caution: For Laboratory Use. A research reagent for research purposes only

## FITC (Fluorescein) Detection Kit

**Product No.:** 6760605C/M/R

**Lot No.:** 670-543A

### Material Provided

<b>Format:</b>	6760605C	500 Assay Points
	6760605M	10000 Assay Points
	6760605R	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 09, 2011

### Kit Components:

Component	6760605C	6760605M	6760605R
<b>Anti-FITC (Fluorescein) Acceptor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Proclin-300, pH 7.4</b>	1 x 50 µL (6760110)	1 x 1 mL (6760111)	1 x 5 mL (6760111B)
<b>Streptavidin Donor Beads at 5 mg/mL in 25 mM Hepes, 100 mM NaCl, 0.05% Proclin-300, pH 7.4</b>	1 x 50 µL (6760001)	1 x 1 mL (6760002)	1 x 5 mL (6760002B)
<b>Biotinylated-ERE-FITC at 0.05 µM in 25mM Hepes, 0.05% Proclin-300, pH 7.4</b>	1 x 50 µL (6760260)	1 x 50 µL (6760260)	1 x 50 µL (6760260)
<b>10x Buffer : 250 mM Hepes, 1 M NaCl, 0.05% Proclin-300, 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 FITC antibody is a mouse monoclonal antibody (IgG <sub>2a</sub> ) that reacts with both free and conjugated FITC.
<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>	<b>AlphaScreen® donor beads are light sensitive</b> and should be handled under subdued or green filtered light conditions (< 100 Lux). Vortex beads prior to use.

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-ERE-FITC 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	747 929 cps
Minimum signal	536 cps
EC <sub>50</sub>	0.06 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-FITC (Fluorescein) Acceptor beads to 245 µL 1x buffer.

**Donor beads:** Add 5 µL Streptavidin Donor beads to 245 µL 1x buffer.

**Biotinylated-probe:** From the 0.05 µM biotin-ERE-FITC, prepare a ½ log dilution series (5 nM to 0.5 pM) in 1x buffer. Include a buffer only control.

### Titration Protocol:

To a white opaque 384-well Optiplate:

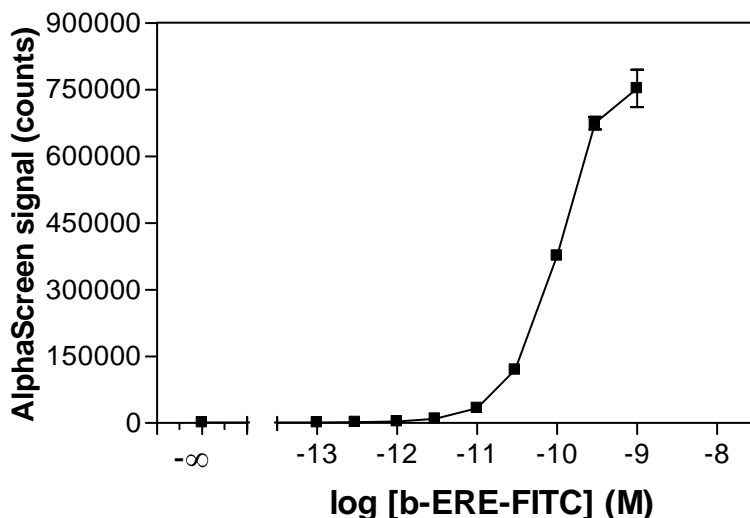
- 1- Add 5 µL biotinylated-ERE-FITC dilutions (from lowest to highest concentration).
- 2- Add 10 µL of 1x buffer
- 3- Add 5 µL of Anti-FITC (Fluorescein) Acceptor beads.

Incubate in the dark at room temperature for 30 minutes.

- 4- Add 5 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-ERE-FITC 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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PerkinElmer, Inc.  
940 Winter Street  
Waltham, MA 02451 USA  
P: (800) 762-4000 or  
(+1) 203-925-4602  
[www.perkinelmer.com](http://www.perkinelmer.com)



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