

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

## GST (Glutathione S-Transferase) Detection Kit

Product No.: 6760603C/M/R

Lot No.: 680-104-A

### Material Provided

<b>Format:</b>	6760603C	500 Assay Points
	6760603M	10000 Assay Points
	6760603R	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:** August 10, 2011

### Kit Components:

Component	6760603C	6760603M	6760603R
<b>Anti-GST (Glutathione S-Transferase) 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 (6760106)	1 x 1 mL (6760107)	1 x 5 mL (6760107B)
<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-GST at 0.5 µM in 25mM Hepes, 100mM NaCl, 0.05% Proclin-300, 0.05% Tween 20, pH 7.4</b>	1 x 50 µL (6760304)	1 x 50 µL (6760304)	1 x 50 µL (6760304)
<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

**Antibody/Protein:** The GST antibody is a goat polyclonal antibody that recognized Glutathione S-Transferase [Schistosoma japonicum].

**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 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-GST 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	253 788 cps
Minimum signal	509 cps
EC <sub>50</sub>	0.57 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-GST (Glutathione S-Transferase) Acceptor beads to 245 µL 1x buffer.

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

**Biotinylated-probe:** From the 0.5 µM biotin-GST, prepare a ½ log dilution series (50 nM to 5 pM) in 1x buffer. Include a buffer only control.

### Titration Protocol:

To a white opaque 384-well Optiplate:

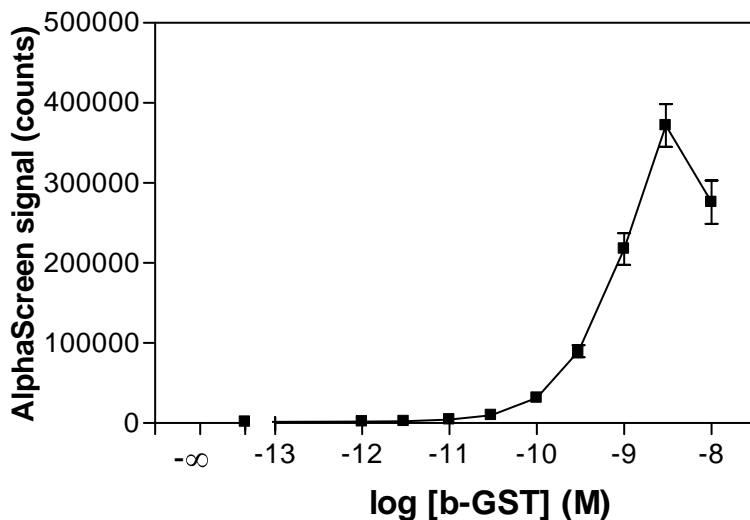
- 1- Add 5 µL biotinylated-GST dilutions (from lowest to highest concentration).
- 2- Add 10 µL of 1x buffer
- 3- Add 5 µL of Anti-GST (Glutathione S-Transferase) Acceptor beads.

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-GST 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)

**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](http://www.perkinelmer.com)



For a complete listing of our global offices, visit [www.perkinelmer.com/ContactUs](http://www.perkinelmer.com/ContactUs)

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