

## AlphaPlex™-545 anti-mouse IgG Acceptor Beads

Product number: AP105TB-C/M/R

Lot number: 2766815

Manufacturing date: September 18, 2020

Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Description:** AlphaPlex-545 anti-mouse IgG Acceptor Beads at 5 mg/mL in PBS pH 7.2 supplemented with 0.05% Kathon as a preservative.

**Application:** This product is designed for use as a tool to generate Alpha assays involving mouse-made antibodies specifically without the need of conjugation to acceptor beads.

**Formats:**

Catalog #	Size	Volume	Assay Points
AP105Tb-C	250 µg	50 µL	500
AP105Tb-M	5 mg	1000 µL	10 000
AP105Tb-R	25 mg	5000 µL	50 000

The number of assay points is based on an assay volume of 25 µL in 384-well assay plates using a final bead concentration of 20 µg/mL.

**Storage:** Store kit in the dark at +4°C.

**Stability:** This product is stable for at least 4 months from the manufacturing date when stored in its original packaging and the recommended storage conditions.

**Sensitivity:** EC<sub>50</sub>: 0.063nM  
 Hook point: 1nM  
 Minimal signal: 5000 counts\*  
 Maximal signal: 450000 counts\*

\*As determined on an EnVision® Multilabel Plate Reader with Alpha option 2104.

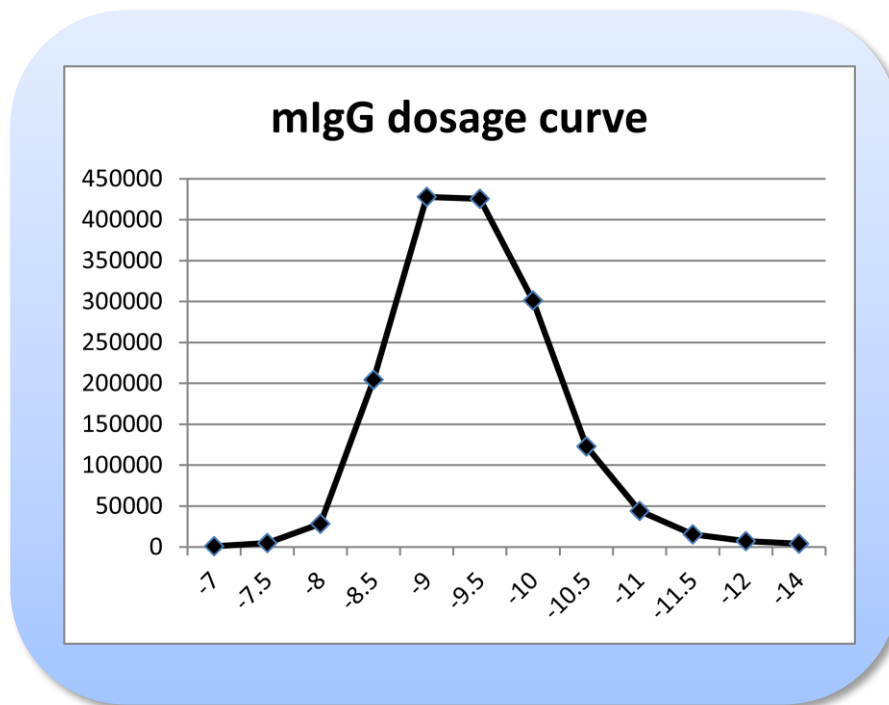


Figure. 1. Typical assay curve. The data was generated using a white Optiplate™-384 microplate and the EnVision® Multilabel Plate Reader with Alpha option 2104. The curve was obtained by mixing anti-mIgG acceptor and streptavidin donor beads with increasing concentrations of biotinylated mIgG. The EC<sub>50</sub> was measured from the curve portion ranging from 0 analyte to the hook point..

## Quality Control

Lot to lot consistency is confirmed in an Alpha assay. Maximum signals were measured on the EnVision Multilabel Plate Reader with Alpha option using the protocol described in this technical data sheet. We certify that these results meet our quality release criteria. Maximum counts may vary between bead lots and the instrument used, with no impact on assay quality.

EC<sub>50</sub>: 0.06 nM

Minimal signal: 1,703 counts

Maximal signal: 542,757 counts

## Recommendations

- The Alpha signal is detected with an EnVision Multilabel Reader equipped with the Alpha option using the the following settings: Total Measurement Time: 550 ms, Laser 680 nm Excitation Time: 180 ms, Mirror: D640as, Emission Filter: Wavelength 535nm, bandwidth: 40nm, Transmittance 75%, bar code 124.
- Alpha signal will vary with temperature and incubation time. For consistent results, identical incubation times and temperature should be used for each plate.
- Sodium azide should not be added to the stock reagents. High concentrations of sodium azide (> 0.001 % final in the assay) might decrease the AlphaLISA signal.

## Suggested Materials and Instrumentation

Please visit our website [www.perkinelmer.com/AlphaTech](http://www.perkinelmer.com/AlphaTech)

You will find detailed recommendations for common situations you might encounter with your Alpha Assay kit at:

[http://www.perkinelmer.com/in/resources/technicalresources/applicationsupportknowledgebase/alphalisa-alphascreen-no-washassays/alpha\\_troubleshoot.xhtml](http://www.perkinelmer.com/in/resources/technicalresources/applicationsupportknowledgebase/alphalisa-alphascreen-no-washassays/alpha_troubleshoot.xhtml)

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