

## Anti-Human Immunoglobulin G Subclass 1 (IgG<sub>1</sub>) Acceptor Beads

Product number: AL179 M

Lot number: 3154594

Manufacturing date: May 5<sup>th</sup> 2023

Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Description:** AlphaLISA Anti-Human IgG1 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 in homogeneous AlphaLISA assays for the capture of human IgG1.

**Formats:**

Catalog #	Size	Volume	Assay Points
AL179C	250 µg	50 µL	500
AL179M	5 mg	1 mL	10 000
AL179R	25 mg	5 mL	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 12 months from the manufacturing date when stored in its original packaging and the recommended storage conditions.

**Sensitivity:** EC<sub>50</sub>: 17.5 nM  
Minimal signal: 217 counts\*  
Maximal signal: 353624 counts\*

\*As determined on an EnVision® Multilabel Plate Reader with Alpha option 2102.

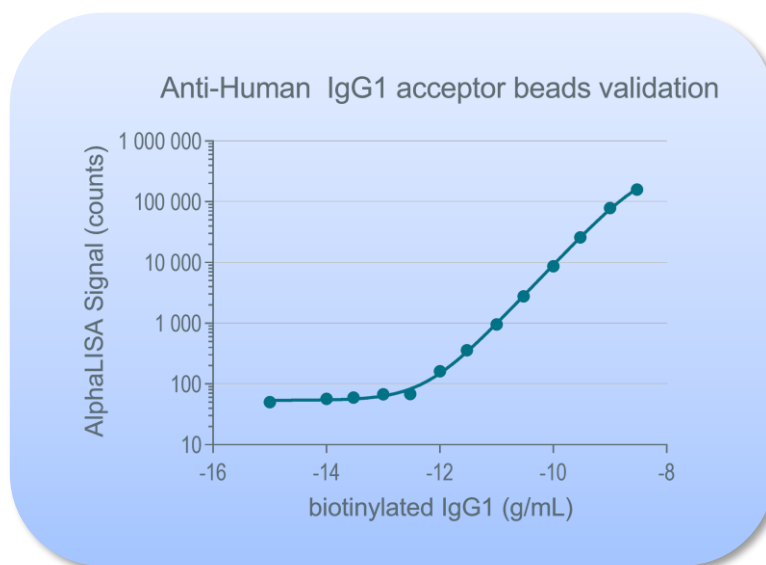


Figure. 1. Typical sensitivity curve. The data was generated using a gray AlphaPlate™-384 microplate and the EnVision® Multilabel Plate Reader with Alpha option 2102. The EC<sub>50</sub> value was determined following a nonlinear regression analysis using the sigmoidal dose response curve model with variable slope.

## Quality Control

Lot to lot consistency is confirmed in an AlphaLISA assay. Maximum and minimum signals, and EC<sub>50</sub> were measured on the EnVision Multilabel Plate Reader with Alpha option. 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>: 10.49 nM

Minimal signal: 103 counts

Maximal signal: 134850 counts

## Recommendations

- The AlphaLISA signal is detected with an EnVision Multilabel Reader equipped with the Alpha option using the AlphaScreen standard settings (e.g. Total Measurement Time: 550 ms, Laser 680 nm Excitation Time: 180 ms, Mirror: D640as, Emission Filter: M570w, Center Wavelength 570 nm, Bandwidth 100 nm, Transmittance 75%).
- AlphaLISA 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 AlphaLISA 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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