



GEN-PROBE

Diaclone

DIApIex

Bead-based Immunoassay



**MULTIPLE ANALYTE DETECTION
FLOW CYTOMETRY
FAST TRACK YOUR RESEARCH**

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MULTIPLE ANALYTE DETECTION BY FLOW CYTOMETRY

Diaclone DIAplex is a sensitive multiplex fluorescent bead-based immunoassay for the simultaneous quantification of multiple analytes from a single sample by flow cytometry.

Utilising bead populations with distinct fluorescence intensities and unique antibody specificities Diaclone DIAplex can accurately measure multiple analytes in a single sample with a significantly reduced assay time and sample volume requirement when compared to traditional ELISA techniques.

1: Antibodies highly specific to the analytes to be detected are coupled to fluorescently labelled detection beads. Each bead is analogous to an individually coated well in an ELISA providing a capture surface for a specific analyte.

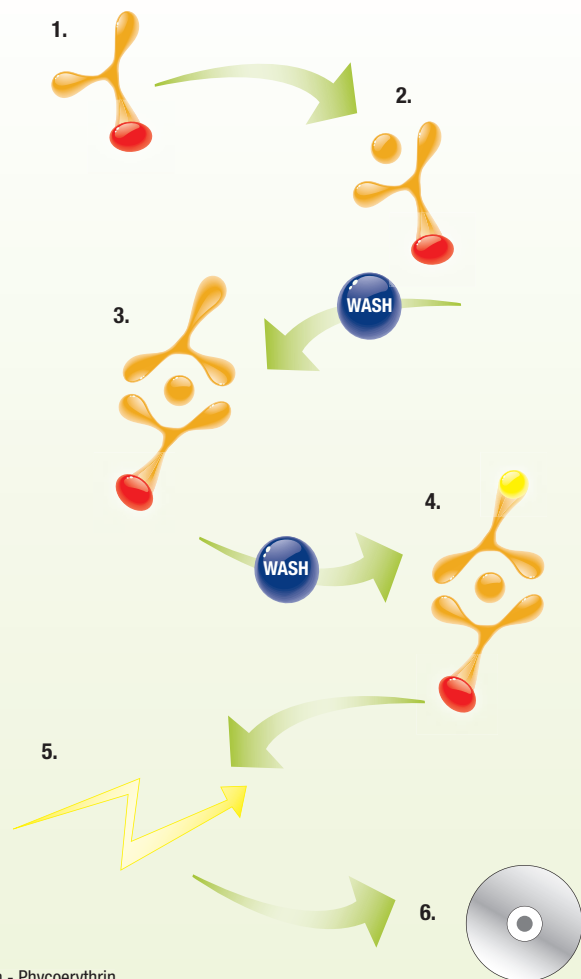
2: One (simplex) or more (multiplex) populations of the beads are combined in suspension with the sample or standard under test. Any analytes present in the sample will bind to the specific antibodies linked to the fluorescent beads.

3: A biotin-conjugated secondary antibody mixture is then added which binds to any analytes captured by the primary antibodies.

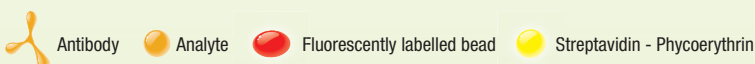
4: Streptavidin-Phycoerythrin (PE) is added, which binds to the biotin conjugates and emits a yellow fluorescent signal.

5: The unique size and fluorescent signature of each bead is differentiated by flow cytometry.

6: Following sample data acquisition using a flow cytometer, analyte concentration in the test sample is calculated simply by using the Diaclone DIAplex Pro analysis software provided free of charge.



Key



FLEXIBLE BY DESIGN

Diaclone DIAplex Complete

DIAplex Complete provides multiplex assay sets which are preconfigured for the detection of a panel of analytes for investigation of a specific scientific area. An individual experiment can provide measurements of several analytes from a single sample.

Diaclone DIAplex Design

DIAplex Design combines the benefits of multiplexing with the ability to design your own analyte detection panel. The assays have been designed for use individually (simplex) or combined to create any size flex system. Each combination is supplied with a DIAplex accessory kit.

VERSATILITY & SIMPLICITY

- Test multiple sample types including serum, plasma and cell culture supernatants
- Compatible with most commercially available flow cytometers
- The simple to use Diaclone DIAplex Pro software (available free of charge) enables calculation of analyte concentration from a standard curve & provision of detailed analysis reports within a matter of minutes post flow cytometry measurement

EFFICIENCY & RELIABILITY

- Diaclone DIAplex assay standards are calibrated against NIBSC standards
- Robust Validation for uncompromised reproducibility and sensitivity
- Small sample volume required due to multiple analyte detection in one sample maximising the number of analytes that can be tested in a single sample
- A single set of diluted standards is used to generate a standard curve for each analyte
- Takes less time than a conventional ELISA and provides data that would normally require multiple ELISA in a smaller sample volume

With the benefits of specific, sensitive and reliable measurement of multiple analytes in a single sample combined with significantly reduced assay times and sample volume requirements Diaclone DIAplex is the clear choice to...

**Fast Track
Your Research...**

Other Products Available:



**Monoclonal
Antibodies**



ELISA



ELISpot

With over 20 years experience and extensive expertise, we are committed to providing excellence in Monoclonal Antibody and Immunoassay development. The expanding range of Diaclone immunology products is specifically designed to advance diagnostic and research applications.

Distributor Details



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