BD™ Cytometric Bead Array (CBA) Reagents

A complete solution with the BD Accuri™ C6 Flow Cytometer

Features

- Quantitate multiple analytes simultaneously using BD™ Cytometric Bead Array (CBA) reagents
- Acquire data on the easy-to-use BD Accuri™ C6 flow cytometer
- Get quantitative results using FCAP Array™ v3.0 analysis software

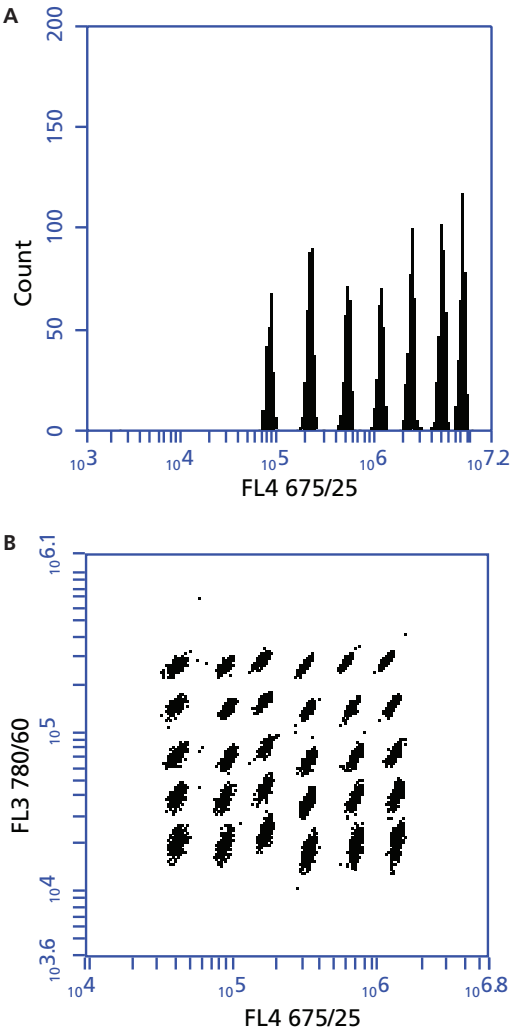

Figure 1. BD CBA Kits (A) and BD CBA Flex Set beads (B) resolved using the filters described in Table 1.

Bring the power of multiplexed soluble protein quantitation to your lab with BD CBA reagents, the BD Accuri C6 flow cytometer, and FCAP Array v3.0 analysis software.

Multiplexed Bead-Based Immunoassays

BD CBA is a flow cytometry application that allows users to quantify multiple proteins simultaneously. The BD CBA system uses the broad dynamic range of fluorescence detection offered by flow cytometry and antibody-coated beads to efficiently capture analytes. Each bead in the array has a unique fluorescence intensity so that beads can be mixed and run simultaneously in a single tube (Figure 2, on back). This method significantly reduces sample volume requirements and time to results in comparison with traditional ELISA and Western blot techniques.

The BD CBA portfolio includes assays for measurement of a variety of soluble and intracellular proteins, including cytokines, chemokines, and growth factors involved in the immune response. BD CBA solutions are available in two formats to meet diverse needs. BD CBA Kits are preconfigured for ultimate ease of use with routine panels, while BD CBA Flex Sets provide an open and configurable method of detection, so that researchers can build their own multiplexes.

A Personal Flow Cytometer

The BD Accuri C6 is a personal flow cytometer that brings flow cytometry within reach for all life science researchers. The system is easy to use, simple to maintain, and affordable. The BD Accuri C6 is equipped with a blue and a red laser, two light scatter detectors, and four fluorescence detectors with optical filters optimized for the detection of fluorochromes such as FITC, PE, PerCP-Cy™5.5, and APC. A compact optical design, fixed alignment, and pre-optimized detector settings make the system easier to use. The Selectable Laser Module introduces flexibility to the detectors and enables detection of two parameters from the red laser, a requirement for BD CBA Flex Sets. For walkaway convenience, the optional BD CSampler™ accessory offers reliable and easy-to-use automation.

BD CBA Kits take advantage of the standard configuration, with the beads identified in the FL4 detector using the standard APC filter and the assay signal identified in the FL2 detector using the standard PE filter. BD CBA Flex Set beads are detected using the Selectable Laser Module with a 780/60 bandpass filter in FL3 and the standard APC filter in FL4 while the assay signal is detected in the PE channel. Table 1 summarizes the clustering and reporter parameters and filters used for the different BD CBA assay types. Figure 1 illustrates resolution of the beads on the cytometer.

Visit **bdbiosciences.com/cba** and **bdbiosciences.com/instruments/accuri** for more information.

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BD™ CBA Reagents with the BD Accuri™ C6 Flow Cytometer

Powerful Analysis Software

With FCAP Array software (v3.0), sample results are obtained just minutes after performing a BD CBA experiment. After following the assay protocol, simply collect your data using BD Accuri™ C6 software, export the FCS 3.0 data files, and then analyze your data using FCAP Array software. This software enables complete analysis of data, interpolation of sample concentrations by comparison to a standard curve, and viewing of results in graphical or tabular format or in a formatted report. Raw data can also be exported for downstream analysis in statistical software. Conveniently recall and manage data from the software's database.

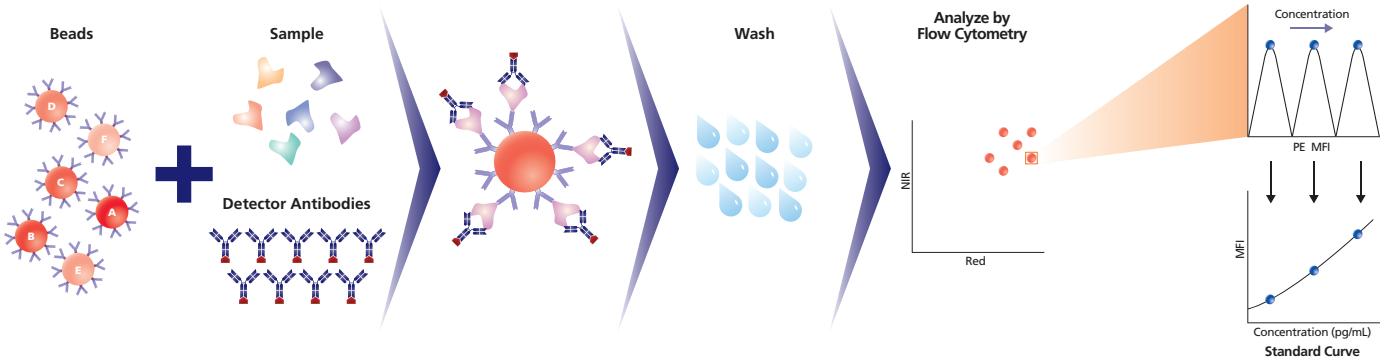

Figure 2. BD CBA assay overview.

Table 1.

Reagent Type	Clustering		Reporter	
	Detector	Filter	Detector	Filter
BD CBA Kits	FL4	675/25	FL2	585/40
BD CBA Flex Sets*	FL4	675/25	FL2	585/40
	FL3	780/60		

*The Selectable Laser Module (Cat. No. 653126) is required for proper acquisition and analysis of BD CBA Flex Set data.

Ordering Information

Description	Cat. No.
FCAP Array v3.0 (Windows® 7, Vista, XP)	**652099**
Selectable Laser Module	**653126**

Visit bdbiosciences.com for BD CBA reagent availability.

23-14073-00

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