

# Magnetic Fluorescent Microspheres



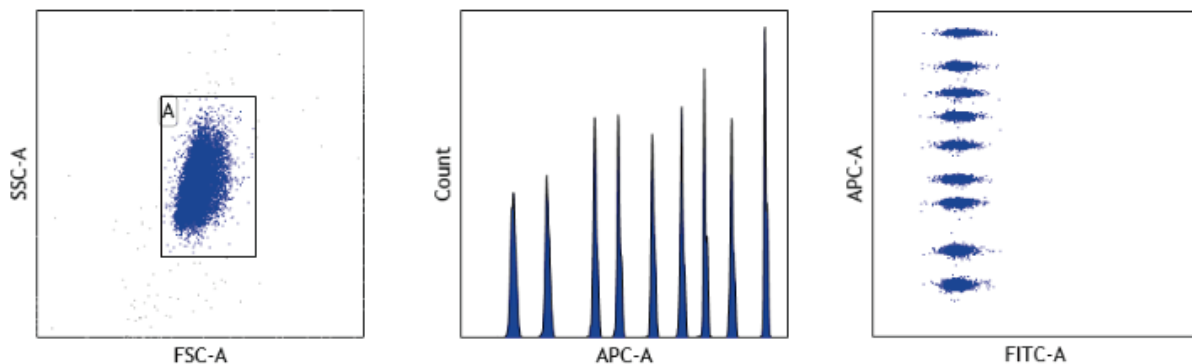
The multiplex flow cytometry platform is well suited for performing multiple analytes in biological samples with the advantages of high sensitivity, wide linear range, and good repeatability. This technology utilizes microspheres of one or more particle sizes as the solid support for a conventional immunoassay which is subsequently analyzed on a flow cytometer. Consequently, multiplex flow cytometry has a wide range of applications in clinical diagnosis and medical research which provides higher clinical value for the diagnostic, monitoring and evaluation of diseases.

VDO Biotech has developed a set of magnetic fluorescence microspheres, which have 9 independent fluorescent components with strong and persistent fluorescence intensity to improve detection precision. Sufficient surface groups can be coupled with enough amount of antibody and other ligands, to enhance the sensitivity of detection. It is an ideal choice for automatic detection because of particle size uniformity and superparamagnetic.



- Material: Fe<sub>3</sub>O<sub>4</sub>/PS
- Particle Size: 5µm
- Concentration: 1.2×10<sup>8</sup> beads/mL
- Multiple assay detection: up to 9 fluorescent intensities
- Surface Functional Group: Carboxyl (-COOH)
- Fluorescence Channel: APC (635/700nm)

## Performance Verification

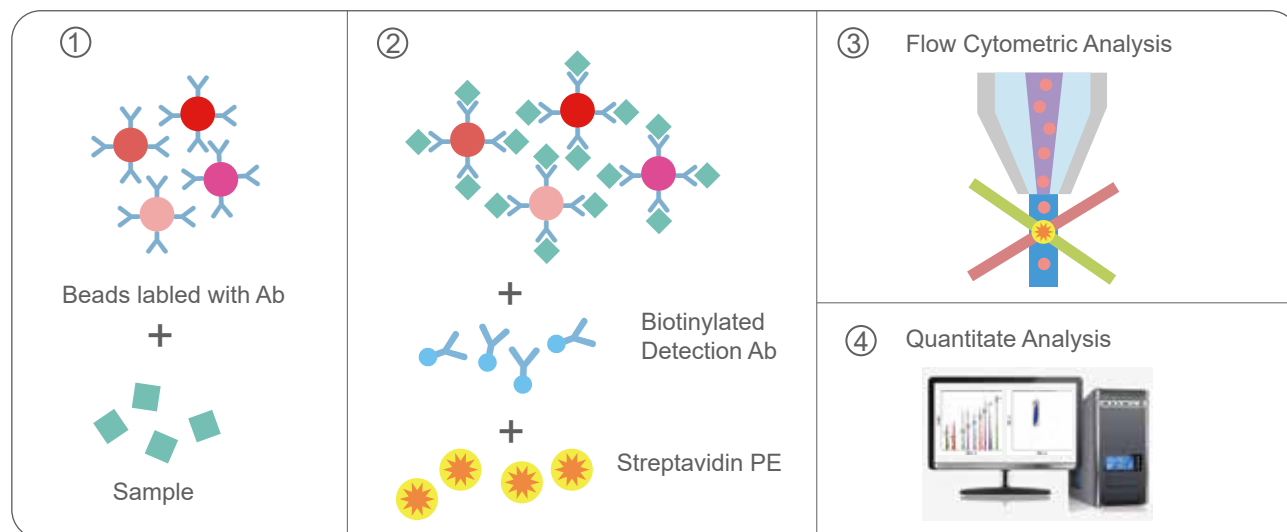


9 independent fluorescent components can be detected by flow and the CV of fluorescence intensity is small.

## Features

- The set of microspheres has up to 9 independent fluorescent components, and the CV is small, which can improve detection accuracy.
- Sufficient surface groups: higher protein binding capacity to improve the detection sensitivity.
- Multiple detections: a variety of magnetic microspheres can simultaneously detect various detection substances in the sample with high detection efficiency.
- The magnetic microspheres with uniform particle size and superparamagnetic, suitable for automated detection platform.

## Detection Process



## Ordering Information

Cat.No.	Particle Size	Concentration	Fluorescent Intensity	Size
MFB100501A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~800W	1mL, 5mL, 10mL
MFB100505A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~400W	1mL, 5mL, 10mL
MFB100507A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~200W	1mL, 5mL, 10mL
MFB100508A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~100W	1mL, 5mL, 10mL
MFB100513A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~50W	1mL, 5mL, 10mL
MFB100516A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~25W	1mL, 5mL, 10mL
MFB100517A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~10W	1mL, 5mL, 10mL
MFB100518A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~5W	1mL, 5mL, 10mL
MFB100519A	5.0μm	1.2x10 <sup>8</sup> Count/mL	~2W	1mL, 5mL, 10mL



### Suzhou Vdo Biotech Co., Ltd.

Tel: +86-512-80905220

Fax: +86-512-80905230

Web: [www.vdobiotech.com](http://www.vdobiotech.com)

Email: [vdo@vdobiotech.com](mailto:vdo@vdobiotech.com)

Add: Building C18 Biobay, 218 Xinghu Street,  
SIP, Suzhou, 215123, China