



# Flow Lattice Analyzer

Mplex-M100

LIQUID CHIP SERIES

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HG-FLA-23001



# Flow Lattice Analyzer

## Mplex-M100

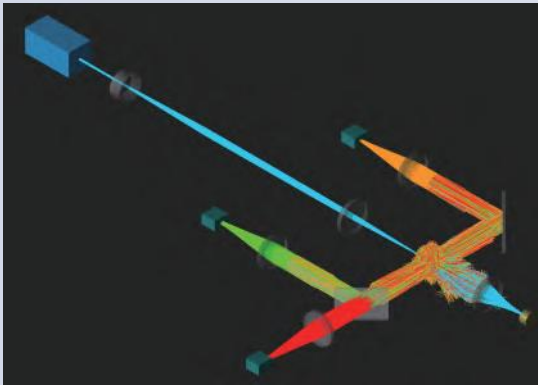
Flow lattice analyzer is a kind of medical research instrument used in the field of basic medicine, clinic medicine, preventive medicine, and public health.



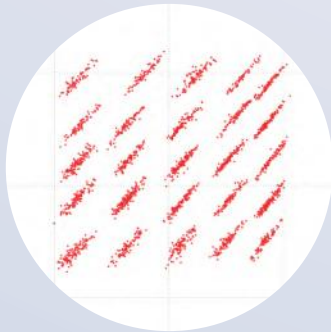
### Technical Principle

Fluorescence-encoded microspheres covalently cross-link monoclonal antibodies, which bind to the target molecule to be measured, and then fluorescein-labeled detection antibodies are added to identify individual microspheres by laser scanning of the fluorescence encoding and measure the intensity of the "detected fluorescence" to determine the concentration of the molecules to be measured.

Based on flow cytometry technology, the Flow Lattice Analyzer Mplex-M100 combines hydrodynamics, optics, mechanics, hardware, software, and microspheres to simultaneously analyze multiple analytes in a single test specimen to differentiate between fluoresceins.

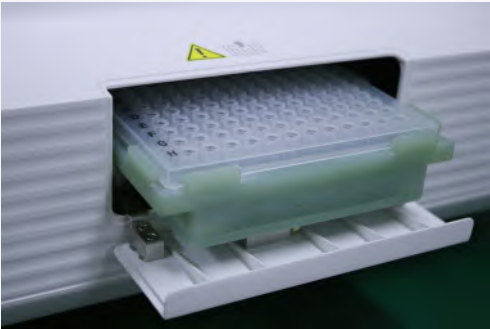


Laser map



Experimental data graph

### Product Specifications



#### 01 Dectect Throughput

96-well plates automatic sampling, 40 indexes/sample.

#### 02 Dectect Speed

Time to complete one 96-well plate within 1 hour.

#### 03 Repeatability

FSC and fluorescence CV $\leq$ 3%(standard fluorescence microsphere)

#### 04 Sensitivity

Reporter channel detecting sensitivity, PE  $\leq$  100MESF.

#### 05 Linear Range

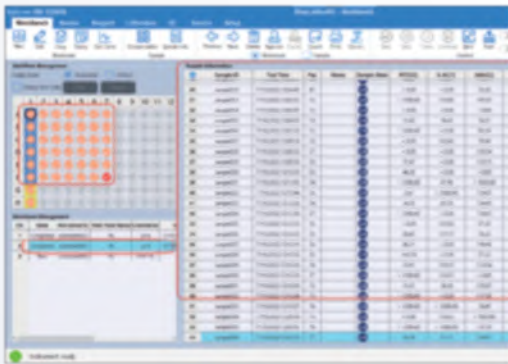
Reporter channel linear range $>$ 3.5logs.

#### 06 Resolution

FSC $\leq$ 3%, FITC and PE $\leq$ 3%, PERCP  $\leq$  5%

#### 07 Samples Volume

10uL for detecting (45uL for sampling).



### Application Scenario

Diagnostics Diseases Spectrum

DNA RNA Protein

