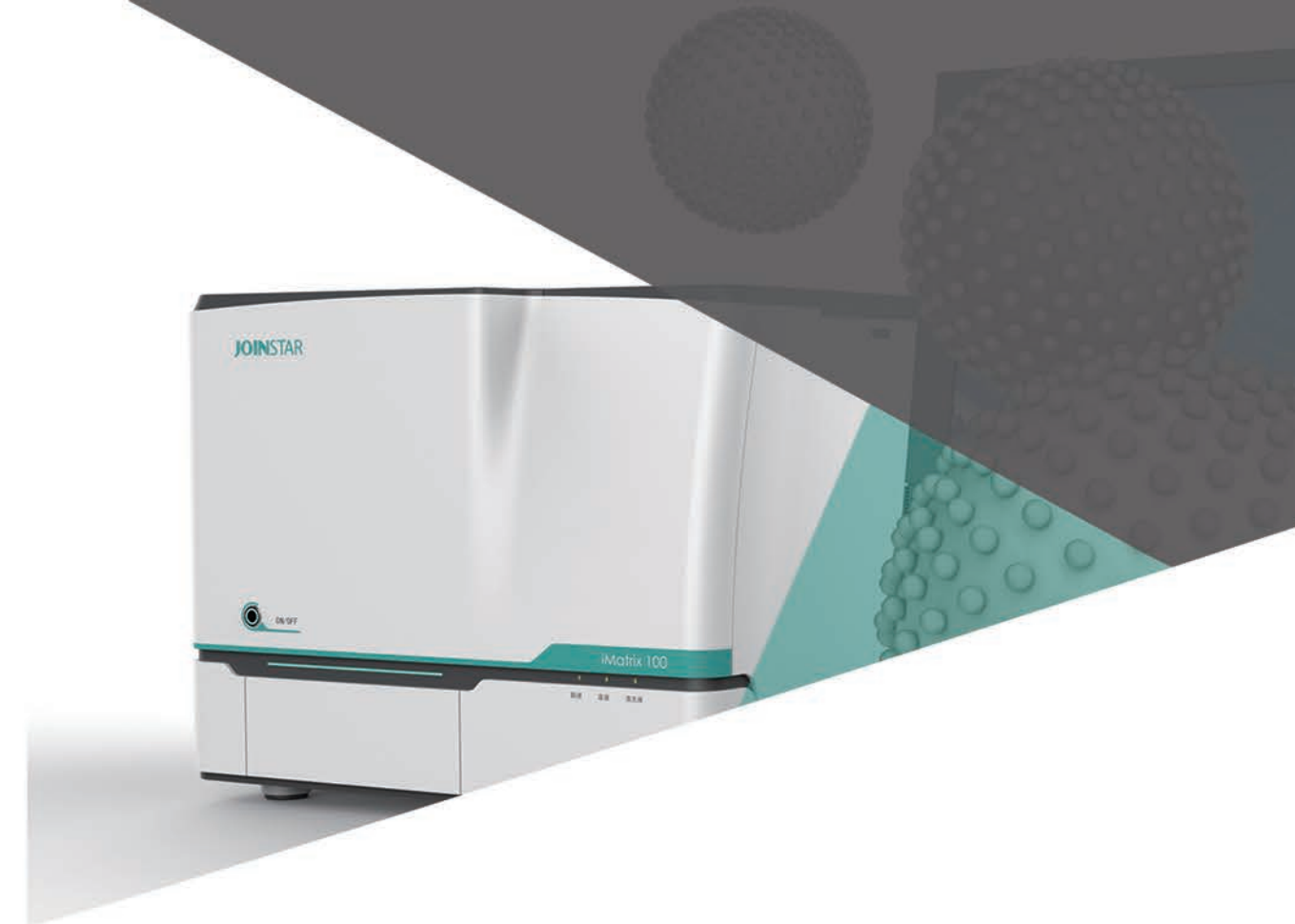




JOINSTAR

iMatrix 100
Automatic Analysis Flow Cytometry

JOINSTAR& Shanghai Jiao Tong University jointly develop
independent intellectual property rights &
Break through technical monopoly



JOINSTAR

Joinstar Biomedical Technology Co.,Ltd

Add: No.519 Xingguo RD.Linping District , Hangzhou ,Zhejiang, China 311106

Web: <http://www.joinstar.com>

Tel: +86-571-8902 8180

E-mail: info@joinstar.cn ; market@joinstar.cn

 <https://www.facebook.com/JoinstarBioTech>

 <https://www.linkedin.com/company/joinstar>



iMatrix 100 testing items

Category	Model	Testing Items
Cytokines	6 items Cytokines	IL-2, IL-4, IL-6, IL-10, TNF- α , IFN- γ
	8 items Cytokines	IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, TNF- α , IFN- γ
	12 items Cytokines	IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12p70, IL-17, TNF- α , IFN- α , IFN- γ
	1 item Cytokine	IL-2R
Food specific IgG	IgG-20	Cow's milk, Peanut, Egg, Crab, Soybean, Shrimp, Rice, Oyster, Tomato, Mushroom, Pistachio, Corn, Pork, Chicken, Beef, Wheat, Cod, Cashew nut, Oat, Mutton
Total IgE*	Total IgE	Immunoglobulin E
Specific IgE for Inhalant Allergens*	Inhalant IgE-13	European house dust mite (D1) ,American house dust mite (D2) ,German cockroach (I6) ,Aspergillus fumigatus (M3) ,Alternaria alternata (M6) ,Cat dander (E1) ,Dog dander (E5) ,Ragweed (W1) ,Mugwort (W6) ,Bermuda grass (G2) ,Silver birch (T3) ,Maple leaf sycamore (T11) ,Willow (T12)
	Inhalant IgE-10	European house dust mite (D1) ,American house dust mite (D2) ,German cockroach (I6) ,Aspergillus fumigatus (M3) ,Alternaria alternata (M6) ,Cat dander (E1) ,Dog dander (E5) ,Silver birch (T3) ,Maple leaf sycamore (T11) ,Willow (T12)
	Inhalant IgE-9	European house dust mite (D1) ,American house dust mite (D2) ,German cockroach (I6) ,Aspergillus fumigatus (M3) ,Alternaria alternata (M6) ,Cat dander (E1) ,Dog dander (E5) ,Ragweed (W1) ,Mugwort (W6)
	Inhalant IgE-5	European house dust mite (D1) ,American house dust mite (D2) ,German cockroach (I6) ,Aspergillus fumigatus (M3) ,Alternaria alternata (M6)
	Inhalant IgE-2	Cat dander (E1) ,Dog dander (E5)
	Inhalant IgE-3	Silver birch (T3) ,Maple leaf sycamore (T11) ,Willow (T12)
Specific IgE for Food Allergens*	Inhalant IgE-3	Ragweed (W1) ,Mugwort (W6) ,Bermuda grass (G2)
	Food IgE-10	Egg white (F1) ,Cow's milk (F2) ,Gadus morhua (F3) ,Wheat (F4) ,Peanut (F13) ,Soy (F14) ,Crab (F23) ,Shrimp (F24) ,Beef (F27) ,Mutton (F88)
	Food IgE-6	Egg white (F1) ,Cow's milk (F2) ,Gadus morhua (F3) ,Soy (F14) ,Crab (F23) ,Shrimp (F24)
	Food IgE-4	Wheat (F4) ,Peanut (F13) ,Beef (F27) ,Mutton (F88)
Allergen Components*	Egg Allergen Components IgE	Gal d1, Gal d2, Gal d3, Gal d4
	Cow's Milk Allergen Components IgE	Bos d4, Bos d5, Bos d6, Bos d8
	Dust Mite Allergen Components IgE	Der p 1, Der p 2, Der p 10, Der p 23
	Pollen Allergen Components IgE	Art v1, Bet v1

- Autoimmune Disease Series***
- Anti-Nuclear Antibody Profile Detection Kit
 - Autoimmune Liver Disease Antibody Profile Detection Kit
 - Anti-Neutrophil Cytoplasmic Antibody Detection Kit
 - Anti-Phospholipid Antibody Detection Kit
 - Autoantibody Detection Kit for Autoimmune Diabetes Mellitus, etc.

- Multiplex Pathogenic Microorganism Nucleic Acid Detection Series***
- Multiplex Respiratory Pathogens Nucleic Acid Detection Kit
 - Multiplex Intestinal Pathogens Nucleic Acid Detection Kit, etc.

- Encoding magnetic beads series**
- We can provide joint development and licensed development of 10-100 encoding magnetic spheres. pioneering host-guest assembly encoding technology and quantum dots as optical encoding elements. We also provide fluorescent microspheres, carboxyl magnetic microspheres, fluorescent magnetic microspheres and magnetic microspheres.

Note: *Products that are not upcoming are not marked

iMatrix 100 Automatic Analysis Flow Cytometry

To improve the efficiency of laboratory operations as a beacon of innovation iMatrix 100 Automatic Analysis Flow Cytometry adopts liquid chip technology to solve the strangled technical difficulties and break the international patent monopoly. For a single biological sample or a single experimental operation, people can obtain more test results in a shorter time, thereby improving the efficiency of laboratory operations.



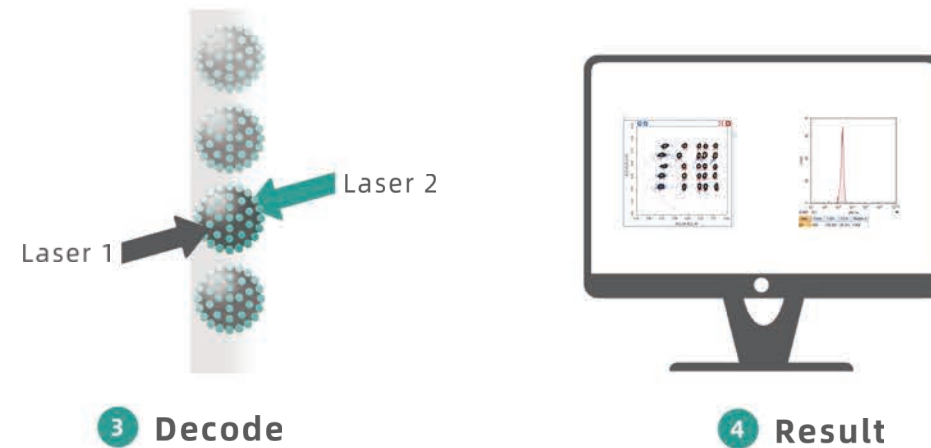
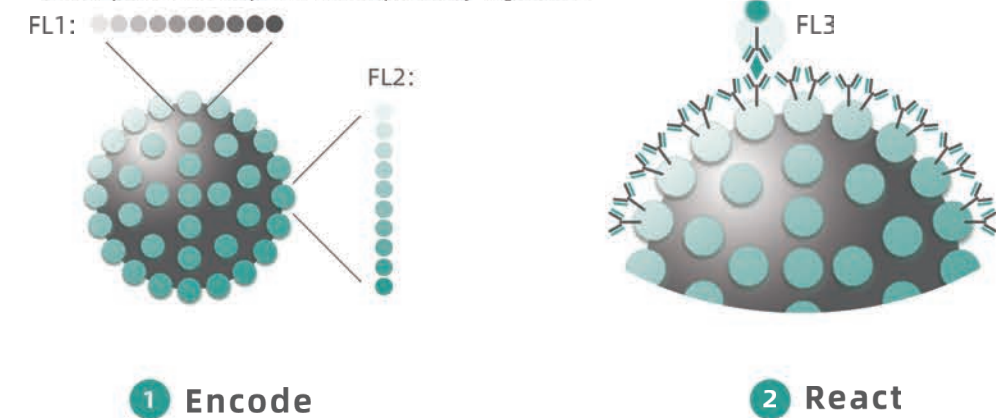
- Widely used**
- Suitable for multiplexed bioassays of nucleic acid and protein detection
 - Compact size, suitable for various scenes
- Reliable**
- Good repeatability, more than 500 beads for each item, CV < 3%
 - Wide linear dynamic range, up to six orders of magnitude
- Unworried**
- Detects only need less sample, at least 10 μ L
 - The cost is controllable and the core patented technology is self-owned
- Efficient**
- Ultra high throughput, 100 results for one test
 - Automatic, human error is avoidable



Revolutionary microsphere encoding technology Break through monopoly, own core intellectual property rights independently

Innovative Adoption of "Novel Optically Encoded Microspheres Based on Host-guest Structure"

- The host-guest composite microspheres with multilevel micro/nano structure were obtained by chemical covalent coupling using micron particles as host spheres and nanoparticles as guest spheres.
- By changing the types of host and guest spheres and the ratio of different guest spheres, the fluorescence of composite microspheres were precisely regulated.



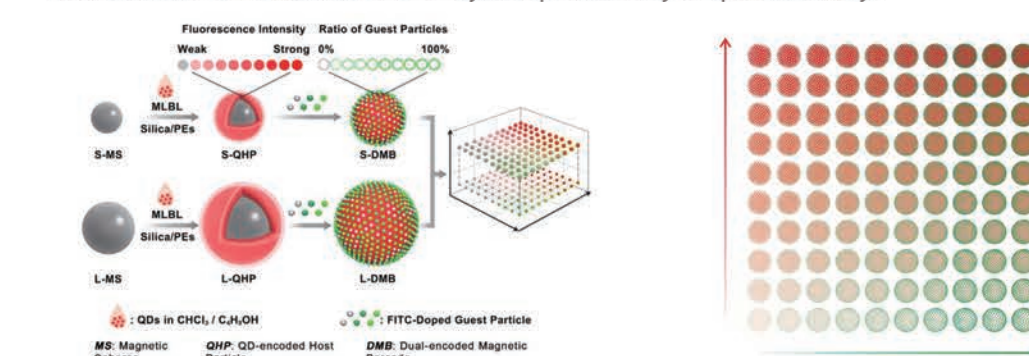
Note: the above figure is only for illustration

- Larger specific surface area**
- Higher loadings on the surface of encoded microspheres
- Less steric hindrance**
- Higher bioactivity of the bioprobes labeled on the surface of microspheres
- Less steric hindrance**
- Host or guest particles are encoded separately
Two fluorescence emission in separate Spaces



Liquid chip technology

- Liquid chip technology is a new biomolecular detection technology integrating encoding technology, liquid flow control technology, laser technology, biomarker technology and digital signal processing technology.
- The liquid chip is carried by encoded magnetic spheres, each of which carries an identifiable code to identify biomarker molecules (antibodies, probes) fixed to its surface. Once the biomarker molecules on the surface of microspheres are identified, the captured target molecules can be decoded and analyzed qualitatively or quantitatively.



We have applied for more than 30 invention patents in China, the United States, Europe, Japan, South Korea and other countries



Cover articles of prestigious journals

Advanced Functional Materials (IF:18.8)
Chemistry of Materials(IF:9.8)
Small (IF:13.3)

