

MF1280

Automated Flow Fluorescence Immunoassay Analyzer

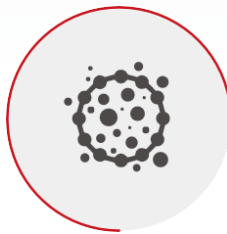
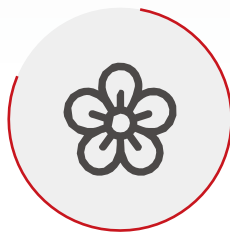
Multiplex and Quantitative Diagnostics Solution
for Allergy and Autoimmune Diseases



Allergy Test Menu

Assay Kit	Allergens Detected
Inhalation group 1	d1 (House dust mite), d2 (American house dust mite), e1 (Cat dander), e5 (Dog dander), i6 (Cockroach), w1 (Common ragweed)
Inhalation group 2	w6 (Mugwort), m3 (Aspergillus fumigatus), m6 (Alternaria alternata), t3 (Common silver birch), t11 (Maple leaf sycamore), t12 (Willow)
Food group 1	f1 (Egg white), f2 (Cow's milk), f3 (Cod), f23 (Crab), f24 (Shrimp), f27 (Beef)
Food group 2	f4 (Wheat), f10 (Sesame seed), f13 (Peanut), f14 (Soybean), f88 (Mutton)
Total IgE	tIgE
New assays*	w9 (Ribwort plantain), w19 (Wall pellitory), w22 (Japanese hop), w10 (Goosefoot), w13 (Cocklebur), g2 (Bermuda grass), g6 (Timothy grass), t6 (Mountain juniper), t14 (Cottonwood), t17 (Japanese cedar), m1 (Penicillium chrysogenum), m5 (Candida albicans), m2 (Cladosporium herbarum), m207 (Aspergillus niger), f17 (Hazelnut), f20 (Almond), f202 (Cashew), f203 (Pistachio), f95 (Peach), f91 (Mango), f210 (Pineapple), f49 (Apple), f44 (Strawberry)

*In development

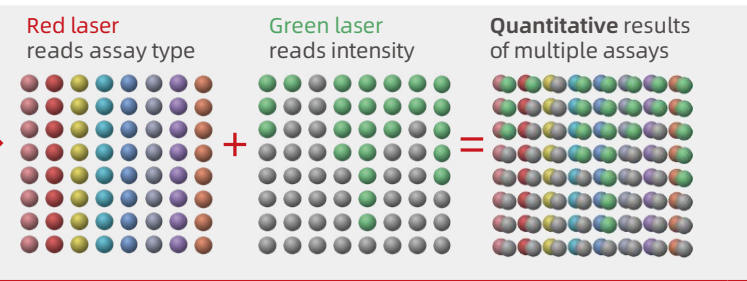
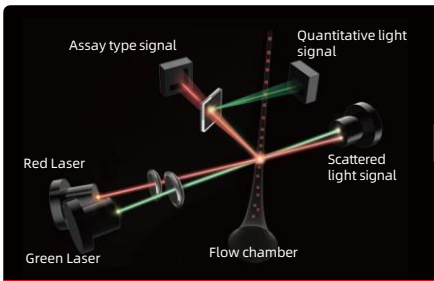


Autoimmunity Test Menu*

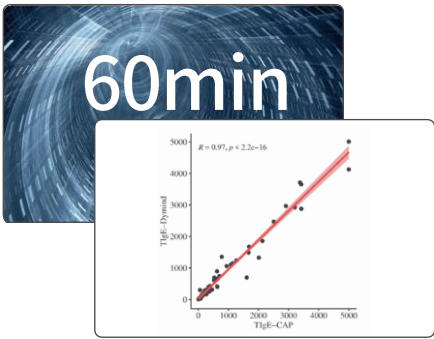
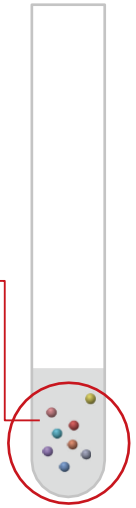
Assay Kit	Antibodies Detected
Anti-nuclear Antibody (ANA)	dsDNA, His, Nuc, Sm, C1q, PCNA, PO, CENP-B, PM-scl, Scl-70, Ro-52, SS-A/Ro, SSB, AMA-M2, Sm/RNP, Jo-1
Antineutrophil cytoplasmic antibody (ANCA)	GBM, MPO, PR3
Idiopathic Inflammatory Myopathies (IIM)	U1RNP, PM-scl, Jo-1, Ro-52, Mi-2, Ku, EJ, PL7, PL12, SRP, TIF1- γ
Rheumatoid Arthritis (RA)	RF IgG, RF IgA, RF IgM, RA33 IgG, CCP
Anti-phospholipid Syndrome (APS)	aCL IgG, aCL IgA, aCL IgM, β 2GP1 IgG, β 2GP1 IgA, β 2GP1 IgM
Primary Membranous Nephropathy (pMN)	PLA2R

*In development

Magnetic Microbeads Flow Fluorescence Immunoassay



Dual Laser Decoding on Microbeads	Red laser reads assay type; Green laser reads analyte intensity
Flow Cytometry Technology	Microbeads examined one-by-one at ultra high speed
Multiplex Assays in Single Test	Multiple types of microbeads used in single test, enabling multiple analytes being detected at the same time



Focused and Efficient

- One aspiration of reagent/sample for up to 6 quantitative sIgE results
- First set of allergen-specific IgE results reported in 60 mins

Quantitative and Traceable

- Advanced technology for quantitative results at wide linear range
- Total IgE linear range: 2.0-5000.0 IU/mL
- Specific IgE linear range: 0.1-100.0 IU/mL
- Detection system traceable to WHO standard



Intelligent and Intuitive

- Few consumable/reagent types with real-time monitoring
- Auto barcode scanning by 360° rotation + Bi-directional LIS
- Replenish consumable/reagent without preprocess or downtime
- Auto-sorting of reaction cuvettes, replenish by pouring
- Intelligent probe detects liquid level, empty sample, collision and clogging
- Automatic waste disposal: auto empty waste liquid in reaction cuvette



Precise and Cost-effective

- Within-run precision: CV ≤ 8%
- Reagent + consumable cost ≈ 1/6 of CLIA test
- Few reagent types, real-time display, all cost visible
- Multiplex assay only requires 10 μL sample

Main Parameters

Product Name	Automated Flow Fluorescence Immunoassay Analyzer
Model	MF1280
Test Method	Magnetic Microbeads Flow Fluorescence Immunoassay
Test Throughput	60 T/H, up to 360 allergen-specific IgE results per hour
First Result Time	tIgE: 30 min sIgE: 60 min
Reagent Capacity	16 positions with refrigeration at 2~8 °C
Reagent Packs	25 or 50 tests per kit
Sample Capacity	30 routine samples + 5 STAT samples, continuous loading
Sample Types	Serum, Plasma
Sample Tubes	75 mm & 100 mm Vacuum Tube, 1.5 ml Cryotube, 1.5 ml Centrifuge Tube
Sample Volume	tIgE: 5µL sIgE: 10µL
Reaction Cuvettes	Auto-sorting. Up to 300 cuvettes per time
Consumables	Buffer, Cleansers (2 types), Reaction Cuvette
Dimensions	1000 mm (W) × 720 mm (H) × 780 mm (D)
Weight	135kg

10th Floor, Building B, High-tech Park, Guangqiao Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen 518107, P. R. China

+86-755-26008015-8123

Intl@dymind.com

www.dymind.com



Declaration: In case of any change in product specification and design, please refer to the registration information. Shenzhen Dymind Biotechnology Co., Ltd. reserves the final right to interpret and decide the information provided in this manual.