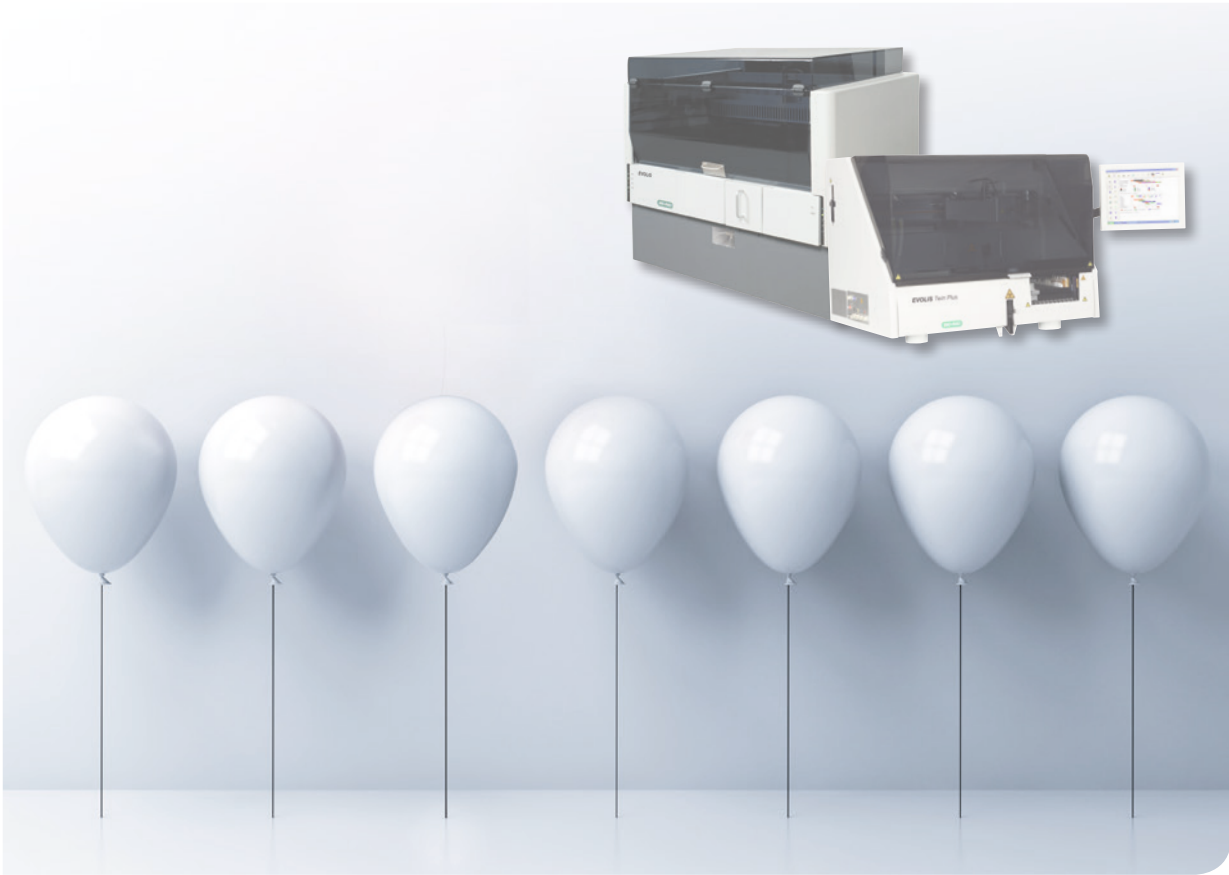




EVOLIS Family Systems

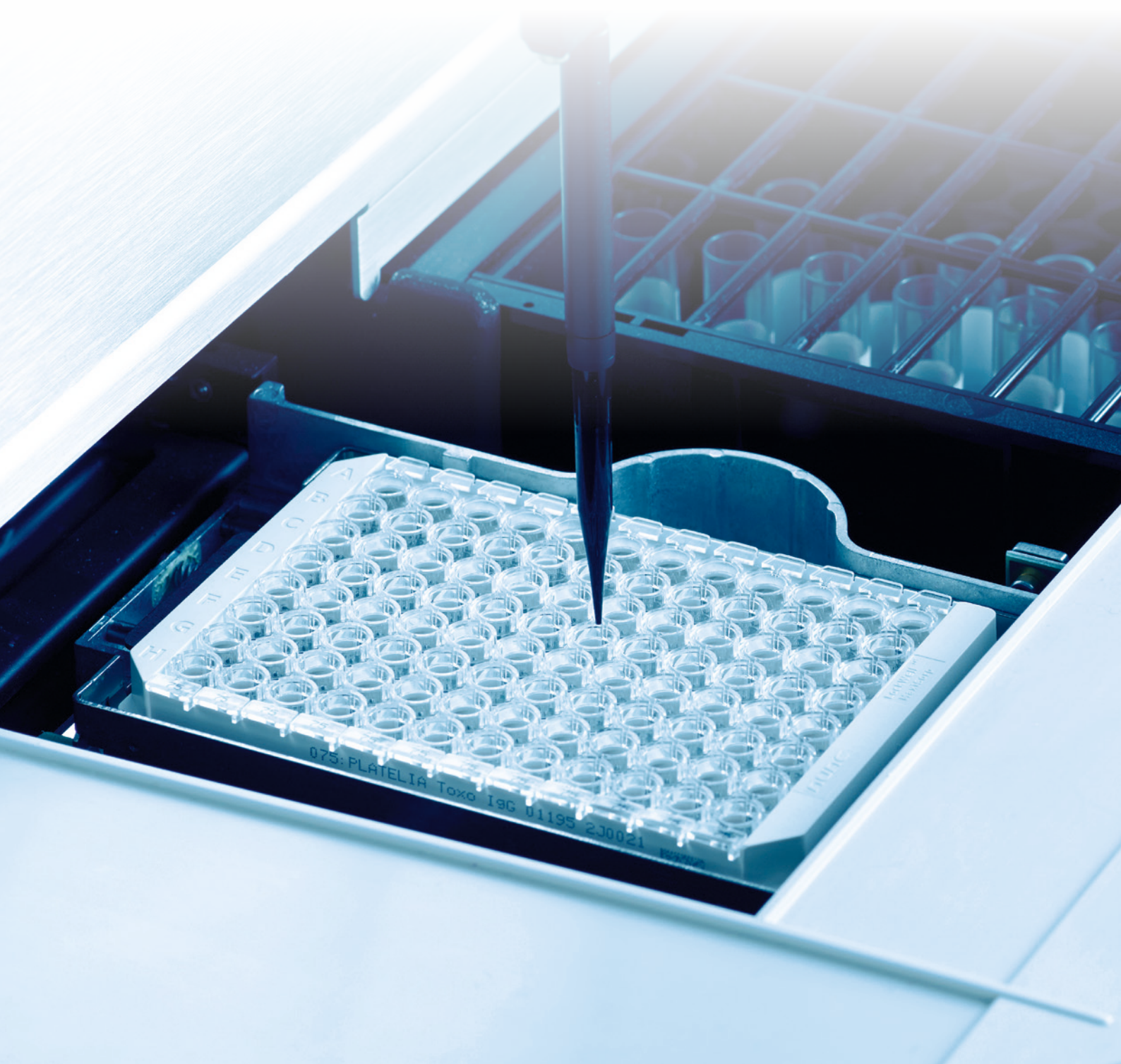
Efficient Solutions for Automated EIA Testing

BIO-RAD

Family of EVOLIS Solutions

The family of EVOLIS Systems features self-contained microplate processors designed to completely automate EIA techniques using microtiter plates. The systems are designed to offer user-friendly and safe processing of assays performed in today's busy labs, including transfusion centers and diagnostics labs.

In addition to a large panel of validated assays, the open architecture of the systems allows laboratory managers to select microplate assays with analytical requirements that match their laboratory environment. The family of EVOLIS Systems is the outcome of our commitment to offering high-performance microplate processors and reagents.





Safety

Pipetting

- Triple detection technology: capacitive, barometric and colorimetric

Carryover elimination

- Single-use tips

Results

- CE-IVD validated assays



Productivity

Real walkaway systems adapted to a wide range of activity

- **Evolis:** High throughput up to 7 plates
- **Evolis Twin Plus:** Unique 3 plates system in a compact design

Large onboard capacity

- **Evolis:**
 - up to 198 samples, 21 reagents and 4 diluents
 - up to 3 dilution/archiving plates
- **Evolis Twin Plus:**
 - up to 144 samples, 8 reagents and 2 diluents
 - up to 2 dilution/archiving plates



Efficient Solution

Multiple systems LIS connection by single interface with data management

- Middleware: Timeliner

Online troubleshooting and training

- Remote software: BRiCare

Accreditation tools for performance warranty

- Incubator Verification Tool (I.V.T.)
- Pipetter/Washer Performance Evaluation Kit (PE Kit)
- Reader Verification Plate (R.V.P.)



Flexibility

Many tests and many possibilities

- Large menu of validated assays in infectious and autoimmune diseases
- Open system ready to run custom tests
- A unique automated solution for mycology

Walk away or multitasks priority setup

Designed to minimize user intervention and to support assay diversity including dilution and archiving.



EVOLIS System

Sample Processing

Primary sample capacity	198; 144*
Dilution capacity (via tubes/plate)	90/288; 72/192*
Container (diameter/height)	10-16 mm/50-100 mm
Sample dilution	up to 1/10,000

Reagent Processing

Calibrator & control capacity	31; 16*
Reagent capacity	21; 16*
Reagent container	Bio-Rad reagent bottles
Reagent identification	internal BCR
Lot & expiration management	yes

Disposable Tips

Carbon tips	300-1,000 µL
Volume (useable)	10-1,000 µL
Liquid level & clot detection	capacitive + air pressure
On-board capacity (walk-away)	480 tips (5 x 96); 384 tips (4 x 96)*

Processing Features

Precision (at 20 µL)	< 6% CV
Accuracy (at 20 µL)	< 10%
Precision (at 100 µL)	< 3% CV
Accuracy (at 100 µL)	< 5%

* for EVOLIS Twin Plus System

Incubation Specifications

Loading slots	4 x ambient T; 2 x ambient T*
Chambers (independent)	4 x from ambient T +5°C, up to 50°C
Precision	3 x from ambient T +5°C, up to 50°C*
Accuracy	1.4°C
	1.0°C

Washer Specifications

Manifold	8 channels
Plate type (bottom shape)	flat, U- & V-shaped
Wash buffers (with level sensor)	3 x 2 L, 1 x 1 L

Reader Specifications

Reading head	8 channels
Reading range	0-3.5 OD
Filter wheel	8 (equipped with 405, 450, 492, 550, 620 nm)
	8 (equipped with 450, 492, 620 nm)*
	1%
	2.5%

Linearity (0-2.0 OD)

Precision (0-2.0 OD)

Communication RS-232 Serial Port Communication

On-line (bi-directional)	ASTM or ASCII format
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Infectious Disease Assays

AIDS Line

Genscreen ULTRA HIV Ag-Ab
Genscreen HIV 1/2, Version 2
Genscreen HIV-1 Antigen EIA

Hepatitis Line

Monolisa Total Anti HAV Plus
Monolisa HAV IgM Plus
Monolisa HBs Ag ULTRA
Monolisa HBs Ag ULTRA Confirmatory
Monolisa Anti-HBs Plus
Monolisa Anti-HBc Plus
Monolisa HBc IgM Plus
Monolisa HBc Ag-Ab Plus
Monolisa HCV Ag-Ab ULTRA V.2
Monolisa Anti-HCV Plus Version 3

Prenatal & Congenital Diseases

Platelia Toxo IgG
Platelia Toxo IgG Avidity
Platelia Toxo IgM
Platelia Toxo IgA
Platelia Rubella IgG
Platelia Rubella IgM
Platelia CMV IgG
Platelia CMV IgM
Platelia HSV-1 IgG
Platelia HSV-2 IgG
Platelia HSV 1/2 IgG
Platelia HSV 1/2 IgM

Pediatric/Vaccination Immunity

Platelia Measles IgG
Platelia Measles IgM
Platelia Mumps IgG
Platelia Mumps IgM
Platelia VZV IgG
Platelia VZV IgM

Respiratory Diseases

Platelia *M. pneumoniae* IgG
Platelia *M. pneumoniae* IgM

Sexually Transmitted Diseases

Platelia Chlamydia IgG
Syphilis Total Ab
Syphilis IgM EIA

Infectious Mononucleosis

Platelia EBV VCA IgM
Platelia EBV VCA IgG
Platelia EBV EA-D IgG
Platelia EBV EB-NA-1 IgG

Invasive Fungal Infections

Platelia *Aspergillus* Ag
Platelia *Aspergillus* IgG
Platelia *Candida* Ag Plus
Platelia *Candida* Ab Plus

Febrile/Tropical Diseases

Brucella IgG
Brucella IgM
Platelia Dengue IgA Capture
Platelia Dengue IgG Capture
Platelia Dengue NS1 Ag
Malaria EIA

Others

Platelia *H. Pylori* IgG

Autoimmune Assays

Systemic

Anti-d sDNA
ENA Plus Screen
Anti-SS-A
Anti-SS-B
Anti-Sm
Anti-SmRNP
Anti-Scl-70
Anti-Jo-1
ANA Screen
ANA-6 Profile Test
Anti-Centromere

Thyroid

Anti-TPO
Anti-TG

Vasculitis

Anti-MPO
Anti-PR3
Anti-GBM

Anti-Phospholipid Syndrome

Anti-Cardiolipin IgG
Anti-Cardiolipin IgM
Anti-Cardiolipin IgA
Anti-β2 Glycoprotein I IgG
Anti-β2 Glycoprotein I IgM
Anti-β2 Glycoprotein I IgA
Anti-Phosphatidylserine IgG
Anti-Phosphatidylserine IgM
Anti-Phosphatidylserine IgA

Autoimmune Hepatitis

Anti-Mitochondrial

Autoimmune Gastro-Intestinal

Anti-tTG IgA
Anti-tTG IgG
Anti-Gliadin IgA
Anti-Gliadin IgG
Anti-SCA IgA
Anti-SCA IgG

Ordering Information

Catalog No.

Description

89818B	EVOLIS System
93500B	EVOLIS Twin Plus System
89611	Conductive Tips (300 µL) (samples) 18 x 960
89612	Conductive Tips (1,100 µL) (reagents) 10 x 960

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