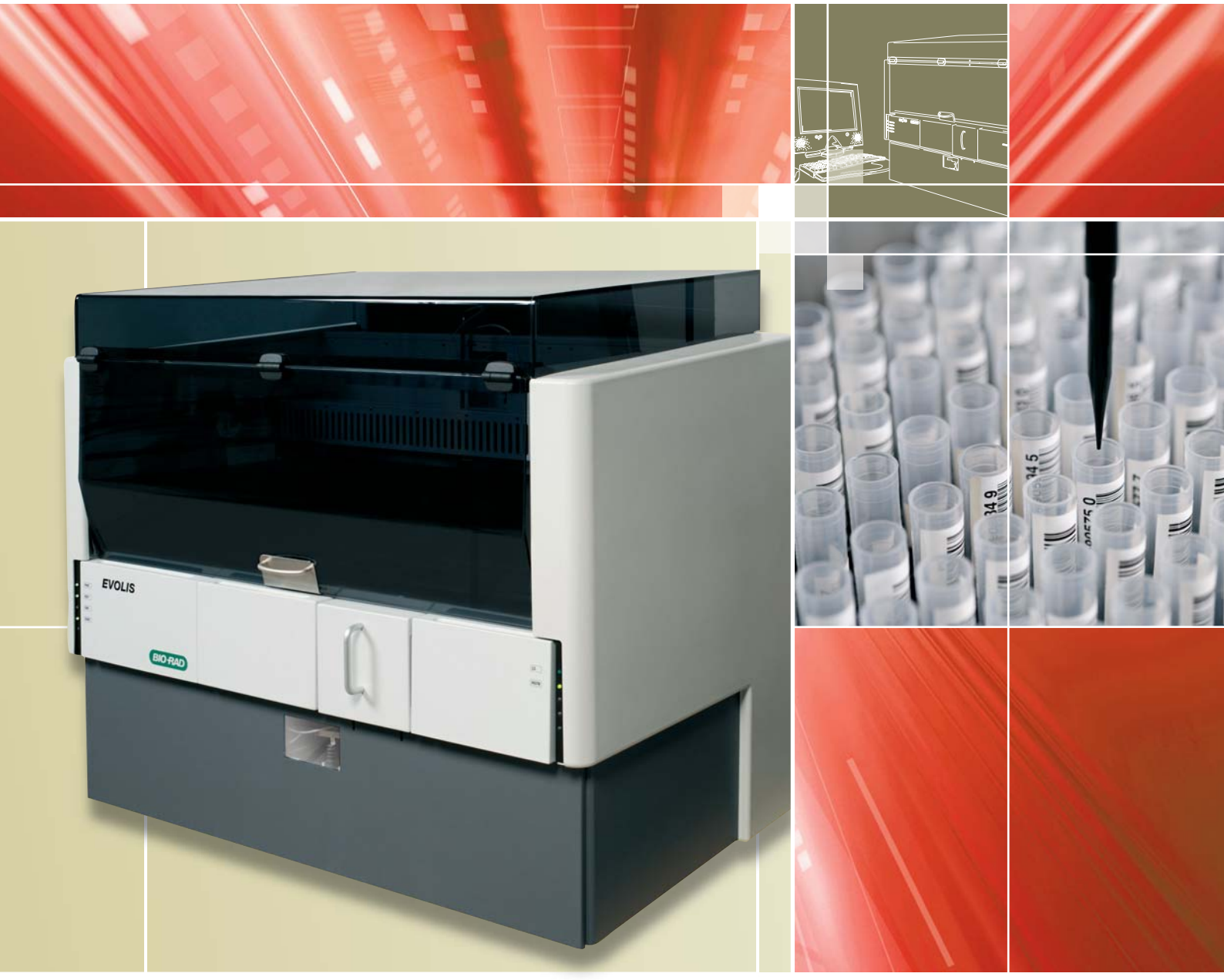
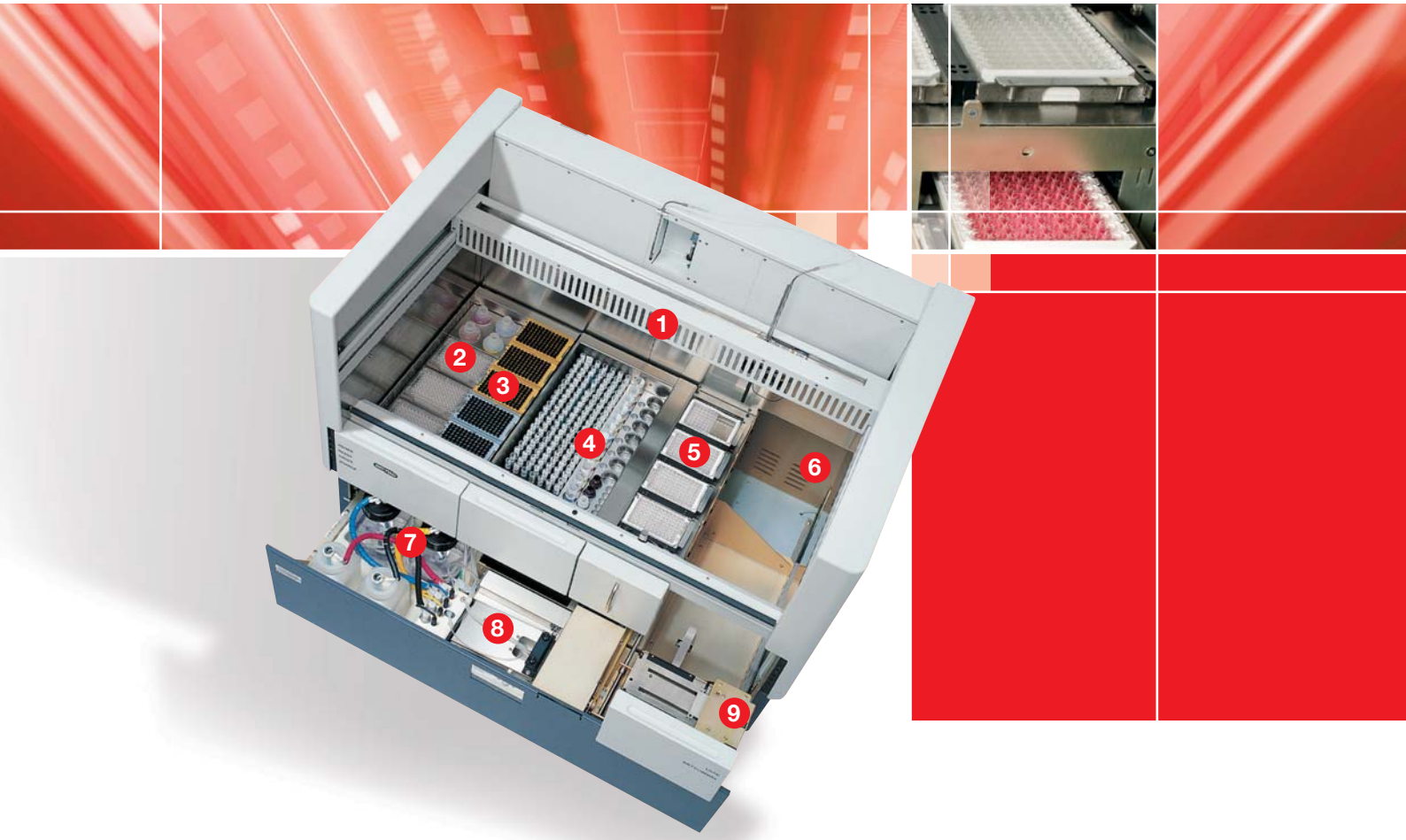


EVOLIS™ System

Advanced Serology Automation

BIO-RAD



EVOLIS™ System

Today's Laboratories Face Many Challenges…

Increased workload, volume fluctuations, staffing priorities, safety requirements and efficiency drives are components of today's testing laboratories. The EVOLIS system delivers a new level of immunoassay microplate productivity to meet the challenge.

- EVOLIS system microplate automation provides the solution
- EVOLIS system is a pipettor, incubator, washer, reader, and data management system for EIA microplate assays
- Thanks to the independence between pipetting and microplate movements, up to seven microplates are processed simultaneously without conflict throughput is maximized
- EVOLIS system streamlines workflow for low-to-high volumes and optimizes productivity using a scheduler to simplify instrument operation

1 Pipette Arm
Performs plate dilutions and distributes primary samples and reagents. Level sensing for primary samples and reagents. Clot and low volume detection using a dual technology (capacitance/air pressure).

2 Pre-Dilution/Archiving Station
Space for 288 pre-dilution or archiving samples.

3 Pipette Tip Station
Disposable tips eliminate carryover contamination. Tips in 300 µl or 1,100 µl volumes.
Holds 5 racks of 96 tips.

4 Sample And Reagent Loading Deck
On-board capacity for 198 primary tubes plus reagents. Each rack holds 20-22 primary samples. Accepts a wide range of primary tube sizes.

5 Microplate Pipette Station
Holds four microplates containing individual or multiple assays per plate.

6 Incubators
Four individually temperature regulated incubators. Four room temperature incubators.

7 Wash Buffer Drawer
Capacity for four wash bottles.

8 Wash Station
8-channel double probe manifold for independent aspiration and dispense cycles.

9 Microplate Transport System
Plate carrier moves microplates between workstations as programmed.

Advanced Efficiency In Your Laboratory Workflow

- 10-minute daily start up – then load samples and reagents
- On-board capacity up to 198 samples
- Batch or multi-panel testing protocols, multiple assays per microplate (up to 12) for optimal flexibility and maximum throughput
- Continuous loading of samples, reagents and consumables
- Open to program and perform any EIA micro-plate assay



Advanced User-Friendliness

- Intuitive, easy-to-use software
- Scheduler with optimize function to maximize throughput
- Barcode-identified controls and reagents with lot number and expiry date
- No dedicated reagent trough, direct use of kit bottles



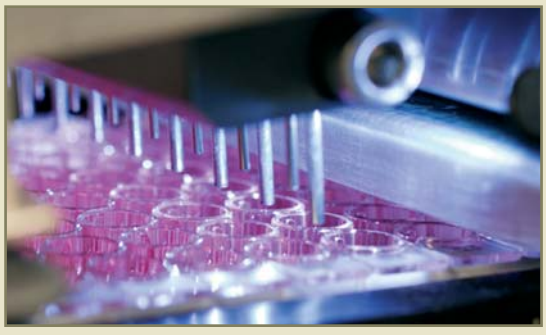
Advanced Safety

- Positive identification of samples, microplates and reagents
- Unique triple technology detection system (air pressure, capacitive, and colorimetric) to monitor sample and reagent pipetting, and detect low volume, air bubbles, foam, or clots
- Ability to trace modified results
- Instrument locked during process
- Comprehensive event log
- QC program using Westgard multirules procedure
- Optimized and secured Bio-Rad protocols



Advanced Productivity

- Software automates each assay step to reduce operator intervention
- Minimal hands-on time to add extra samples and reagents
- Sample aliquoting in microplate or tube
- Bi-directional interface to exchange data with LIMS
- Ability to link multiple EVOLIS systems to a single LIMS interface thanks to Timeliner™ software
- Reflex testing to confirm initial reactive samples, using programmable algorithms
- Remote technical support



EVOLIS™ System

Sample Processing

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

Reagent Processing

Calibrator & control capacity	31
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)

Processing Features

Patient samples (100 µl/well)	~ 16 min/full plate
Reagent (100 µl/well)	~ 4 min/full plate
Dilution (1/10)	~ 23 min/full plate
Precision (at 20 µl)	< 6% CV
Accuracy (at 20 µl)	< 10%
Precision (at 100 µl)	< 3% CV
Accuracy (at 100 µl)	< 5%

Back End Function Work Table

Capacity	4-7 plates
Shaking (linear)	variable time

Incubation Tower

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

Washer Tool

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 Tool

Reading head	8 channels
Reading range	0-3.5 OD
Filter wheel	8 (equipped with 405, 450, 492, 550, 620, 690 nm)
Linearity (0-2.0 OD)	1%
Precision (0-2.0 OD)	2.5%

Communication RS-232 Serial Port communication

On-line (bi-directional)	ASTM or ASCII format

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™ HBe Ag-Ab Plus
Monolisa™ HCV Ag-Ab ULTRA
Monolisa™ Anti-HCV Plus V.2
Monolisa™ HCV Ab
Monolisa™ HBs Ab
Monolisa™ HBc IgM
Monolisa™ HAV Total Ab
Hepatitis Delta (HDV Ag, HDV IgM, HDV Total)

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 IgG Avidity
Platelia™ CMV IgM
Platelia™ HSV-1 IgG
Platelia™ HSV-2 IgG
Platelia™ HSV 1/2 IgG
Platelia™ HSV 1/2 IgM

Pediatric/Vacination immunity
Platelia™ Measles IgG
Platelia™ Measles IgM
Platelia™ Mumps IgG
Platelia™ Mumps IgM
Platelia™ VZV IgG
Platelia™ VZV IgM

Respiratory Diseases
Platelia™ Mycoplasma pneumoniae IgG
Platelia™ Mycoplasma pneumoniae IgM

Gastro-Intestinal Diseases
Platelia™ H. pylori IgG

Sexually Transmitted Diseases
Platelia™ Chlamydia IgG
Syphilis Total Antibody EIA II
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 Mycosis/Oportunistics Diseases
Platelia™ Aspergillus EIA
Platelia™ Aspergillus IgG*
Platelia™ Candida Ag Plus*
Platelia™ Candida Ab Plus*

Tick Borne Diseases
Platelia™ Lyme IgG
Platelia™ Lyme IgM

Emerging/Tropical Diseases
Platelia™ Dengue NS1 Ag
Malaria EIA
Rabies Total Ab

Autoimmune Assays

Systemic
Anti-dsDNA
ENA Plus Screen
Anti-SS-A
Anti-SS-B
Anti-Sm
Anti-SmRNP
Anti-Scl-70
Anti-Jo-1
ANA Screen
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-ß2 Glycoprotein I IgG
Anti-ß2 Glycoprotein I IgM
Anti-ß2 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*

* Assays will be available soon

Ordering Information

Catalog No.	Description
89700	EVOLIS™ System (includes EVOLIS™ analyzer, PC, monitor and printer) . . . . . 1 system
89818	EVOLIS™ System (includes EVOLIS™ analyzer, PC) . . . . . 1 system
89611	Conductive Tips (300 µl) (samples) . . . . . 18 x 960
89612	Conductive Tips (1,100 µl) (reagents) . . . . . 10 x 960

BIO-RAD

Bio-Rad Laboratories

For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com/diagnostics

Clinical Diagnostics Group

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