

# Biossays 240 Series

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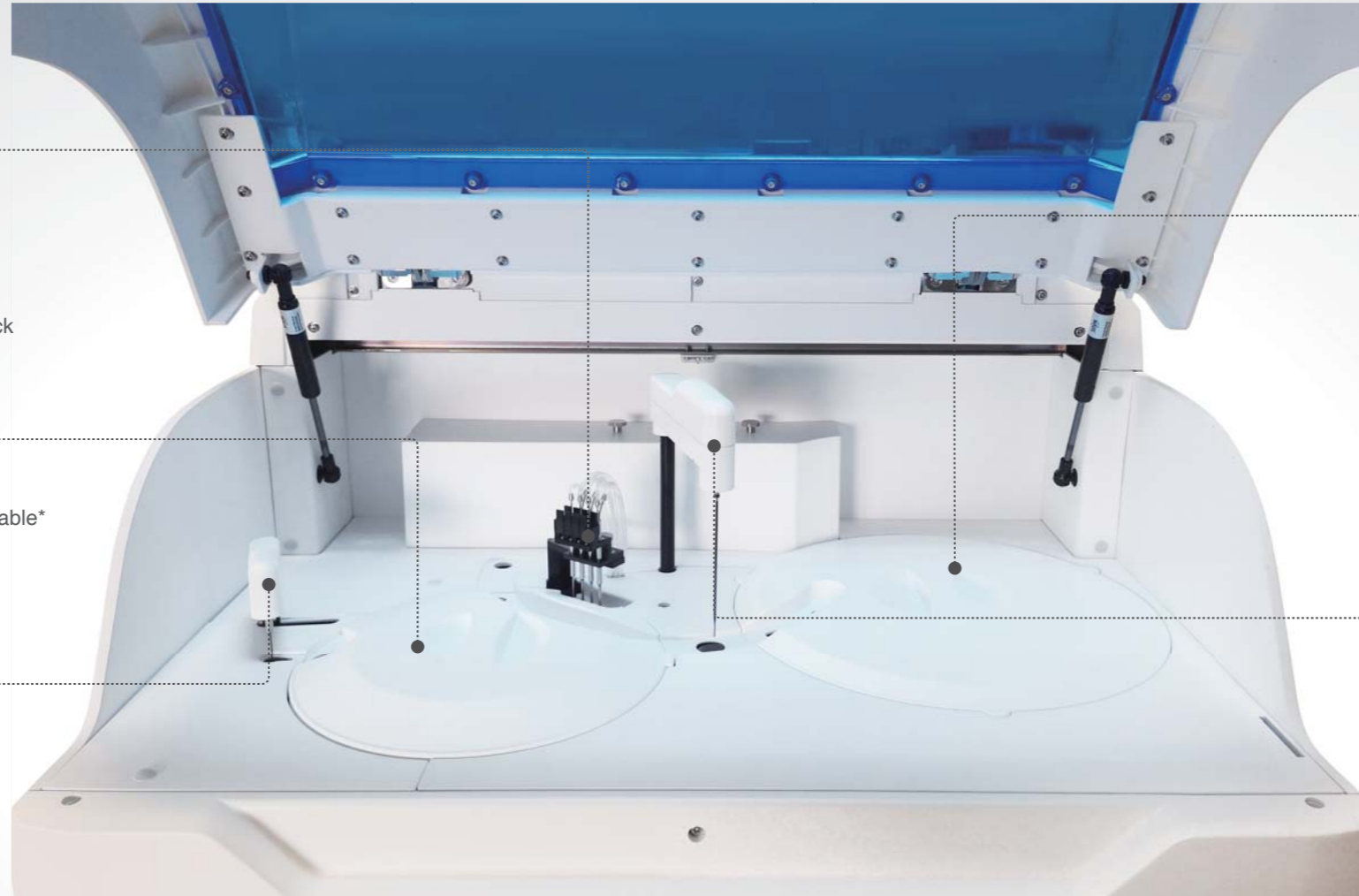
## Automatic Biochemistry Analyzer

- Biossays 240
- Biossays 240 Plus



Compact Design  
with Cost Saving

# Biossays 240 Series



### Washer\*

- 4-step cuvette washing procedure
- Wash with pre-heated pure water and auto-diluted detergent
- Automated cuvette wash & cell blank check



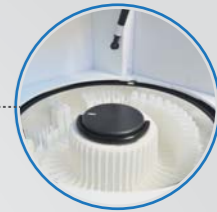
### Reaction Disk

- 80 reaction cuvettes, Optical plastic, Resuable\*
- 100  $\mu$ L minimum reaction volume
- Reaction time: 12 min, 32 min



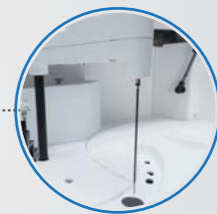
### Mixer

- Wash with pre-heated water before and after mixing
- 1400 rpm high-speed stirring needle (coated with TEFLON)
- Simple structure for maintenance



### Sample & Reagent Disk

- Up to 90 sample positions, continuous loading
- Supporting polytype primary tube & microcontainer cup
- Up to 90 reagent positions
- Continuous loading during measurement
- Built in barcode reader



### Sample & Reagent Probe

- 2.0  $\mu$ L - 35.0  $\mu$ L sample volume with stepping 0.1  $\mu$ L
- 20  $\mu$ L - 350  $\mu$ L reagent volume with stepping 1  $\mu$ L
- Anti-collision to protect needle
- Coated with TEFLON to prevent cross-contamination
- Liquid level detection and clot detection

\* Washer is not available in Biossays 240

\* Optical plastic, Reaction cuvettes are disposable in Biossays 240

## Test Menu



### Cardiac

- CK
- CK-MB
- $\alpha$ -HBDH
- LDH
- \*LDH1



### Inorganic Ion

- Fe (Iron)
- Ca
- P (phos)
- \*Mg



### Pancreatic

- $\alpha$ -AMY
- \*LIP



### Diabetes

- GLU
- LAC
- \*HbA1c
- \*GSP
- \*D3-HB



### Hepatic

- TBA
- ALT (SGPT)
- AST (SGOT)
- ALP
- GGT
- TBIL
- DBIL
- TP
- ALB
- \*Ammonia
- \*PA (Prealbumin)
- \*CHE
- \*AFU
- \*5'-NT



### ISE

- Na
- K
- Cl
- Ca
- pH



### Lipids

- HDL-C
- LDL-C
- TC
- TG
- ApoE
- Lp(a)
- Hcy
- ApoA1
- ApoB



### Renal

- Cr (CREA)
- Uric Acid
- Urea
- \*Cysc
- \*mALB
- \* $\alpha$ 1-MG
- \* $\beta$ 2-MG
- \*Urine/CSF Protein
- \*RBP



### Special Protein

- IgA
- IgM
- IgG
- Transferrin
- \*ASO
- \*RF
- \*CRP (Full Range)
- \*UIBC
- \*Urine/CSF Protein
- \*G6PD
- \*C3
- \*C4
- \*ACP
- \*Haptoglobin

\* Available soon

# Features & Advantages

- **Constant 240 tests/hour**, one of the fastest small size biochemistry systems
- **100 µL** minimum reaction volume
- **Low water consumption** ( $\leq 1.5-3$  L/H)
- Close system and open system is optional
- High efficient washing station for cuvettes (not available in Biossays 240)
- Random access, continuous loading
- Incorporated with liquid level sensor, volume tracking, collision detection and clot detection
- 24 hours refrigeration system with separate switch
- Unlimited STAT position
- **16 wavelengths** range from 340 nm-800 nm
- Automatic cuvette wash & cell blank check
- Real-time reagent levels monitoring, displaying and alerting function

## Specifications

Equipment Type	Automatic discrete, unlimited STAT priority
Throughput	240 tests/hour
ISE	Optional (200 tests/hour)
Measuring Principle	1-Point Endpoint, 2-Point Endpoint, 2-Point Rate, Rate A, ISE technology
Calibration Options	1-Point Linear, 2-Point Linear, Multi-Point Linear, Non-Linear, K Factor
Sample Type	Serum; Plasma; Urine; CSF
Sample Volume	Biochemistry: 2.0 µL-35.0 µL; ISE: 90.0 µL
Sample Handling	Up to 90 sample positions, continuous loading, 24 hours refrigeration function with separate switch
Reagent Handling	Up to 90 reagent positions, continuous loading, 24 hours refrigeration function with separate switch
Reagent Volume	20 µL-350 µL
Reaction Temperature	37.0 C $\pm$ 0.2 C
Reagent Bottle Volume	10 mL+30 mL, 50 mL
Reaction Time	12 min/32 min
Dispensing System	Sample & reagent probe with liquid level detection and clot detection
Wavelength	16 wavelengths, 340 nm, 380 nm, 405 nm, 450nm, 480 nm, 505 nm, 546 nm, 570 nm, 600 nm, 630 nm, 660 nm, 700 nm, 720 nm, 750 nm, 780 nm, 800 nm
Mixing System	1 independent stirring needle (coated with TEFLON)
Dilution	Auto-dilution
Power Supply	a.c.100 Vac-240 Vac, 50/60 Hz
Barcode Type	code 128, code 39, code 93, codabar, 2/5 Interleaved
Reaction Volume	100 µL-380 µL
Cuvette	80 optical plastic cuvettes, reusable, optical diameter is 5 mm (Reaction cuvettes are disposable in Biossays 240)
Light Source	20 W/12 V, halogen lamp, 2000 H
Absorbance Range	0 ABS-3.5 ABS
Water Consumption	Biossays 240: Maximum 2.5 L/H (1.5 L/H;Single Reagent) Biossays 240 Plus: Maximum 3.0 L/H (2.0 L/H;Single Reagent)
Weight	Biossays 240: 66 Kg Biossays 240 Plus: 68 Kg
Dimension	L x W x H= 730 mm x 500 mm x 620 mm (28.74 in x 19.69 in x 24.41 in)



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