

CHEMIA-400

Auto Chemistry Analyzer



Technical Specifications

Throughput

Constant 400 T/H

Probe assembly

2 probes, ceramic syringe
Liquid level detection
Auto depth adjustment
Interior and exterior probe wash
Collision protection
Sample volume: 2-60µL
Reaction volume: 150-500µL

Sample disk

105 sample positions
Compatible with primary tube, sample cup, etc
Built-in barcode scanner

Reagent disk

90 reagent positions
24-hour non-stop cooling
Cooling at 2-12°C
Built-in barcode scanner

Mixer assembly

2 mixers
Nano-polished
Silent mixing
Carry over<0.5%

Photometer

Advanced grating technology
Completely- sealed, maintenance-free
Halogen tungsten lamp
13 wavelengths:340nm,380nm,412nm,450nm,
510nm,546nm,570nm,605nm,670nm,700nm,
740nm,800nm,850nm
Absorbance: 0-4.0Abs

Operation unit

Win 7, Win8 and Win 10
Interface: Network port

Working condition

Power supply: 100~240V, 50/60Hz, 1100VA
Temperature: 15~30°C
Humidity: 35~85%
Dimension:
1110mm*800mm*1200mm (L*W*H)
Weight: 210 Kg

Hepatic Panel		Immune Panel	
ALB	Albumin	C3	Complement C3
TP	Total Protein	C4	Complement C4
AST	Aspartate aminotransferase	IgA	Immunoglobulin A
ALP	Alkaline phosphatase	IgG	Immunoglobulin G
ALT	Alanine aminotransferase	IgM	Immunoglobulin M
TBA	Total bile acids	RF	Rheumatoid Factor
PA	Prealbumin	ASO	Ascorbic Acid Oxidase
GGT	γ-Glutamyl transferase	Cardiac Panel	
D-BIL	Direct bilirubin	LDH	Lactate dehydrogenase
T-BIL	Total Bilirubin	α-HBDH	α-Hydroxybutyrate dehydrogenase
CHE	Cholinesterase	CK	Creatine Kinase
ADA	Adenosine deaminase	CK-MB	Creatine Kinase Isoenzyme
5'-NT	5'-nucleotidase	MYO	Myoglobin
AFU	α-L-fucosidase	HCY	Homocysteine
Inorganic Panel		Renal Panel	
Ca2+	Calcium	CREA(OX)	Creatinine
Na+	Natrium	UA	Uric Acid
K+	Kalium	UREA	Urea
Cl-	Chlorine	CO2	Carbon Dioxide
Mg2+	Magnesium	β2-MG	β2 microglobulin
Cu	Cuprum	CysC	Cystatin C
Zn	Zinc	MALB	Microalbuminuria
P	Phosphorus	RBP	Human Retinol Binding Protein
Anemia Panel		Inflammation Panel	
Fe	Iron	CRP	C Reactive Protein
UIBC	Unsaturated iron Binding Capacity	HS-CRP	Hypersensitive-c-reactive-protein
Ferritin	Ferri-albumin	D-Dimer	D-Dimer
TRF	Transferrin	SAA	Serum amyloid A protein
Lipid Panel		Diabetes Panel	
TG	Triglyceride	GLU (OX)	Glucose
CHOL	Total Cholesterol	HBA1C	Glycated Hemoglobin
HDL-C	HDL-Cholesterol	G-6-PD	Glucose-6-Phosphate
LDL-C	LDL-Cholesterol	β-HB	β-Hydroxybutyrate
APOA1	Apolipoprotein A1	FUN	Fructosamine
APOB	Apolipoprotein B	Pancreatitis Panel	
Lpa	Lipoprotein (a)	α-AMY	α-Amylase



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Sicuro Bioengineering Ltd

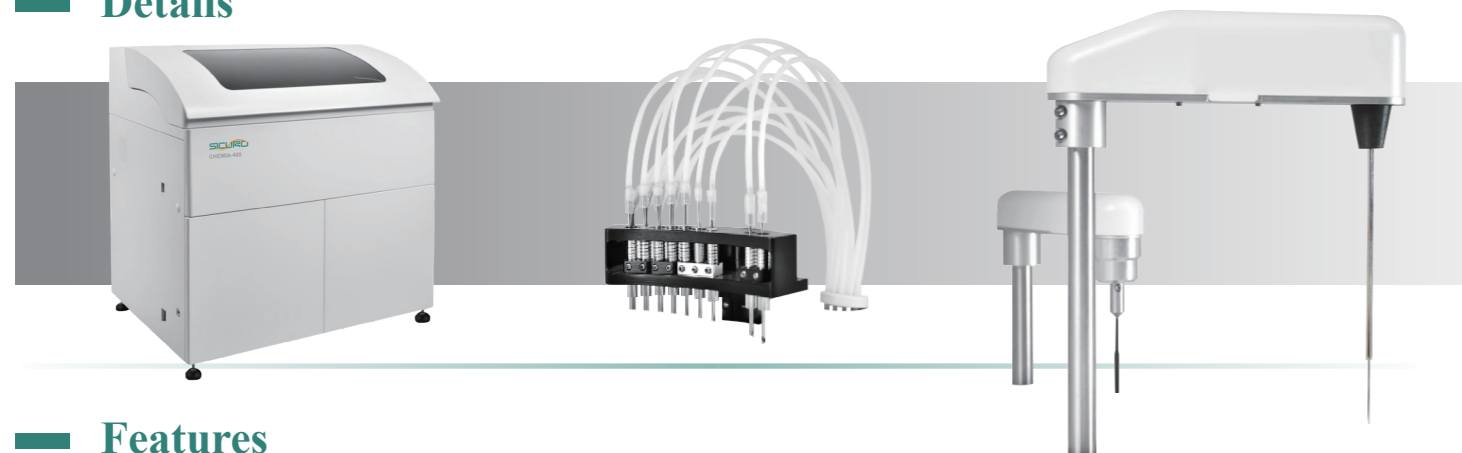
Add: Sicuro House, 19 East West Rd,
Portharcourt, Nigeria.
Email: info@sicurobio.com



CHEMIA-400



Details



Features

Reagent Probe

- 20-500 μ L aspiration, 1 μ L step
- Liquid level detection, Clot detection, Inventory detection
- Collision protection (V & H)
- Inner& outer polished probe

Sample Probe

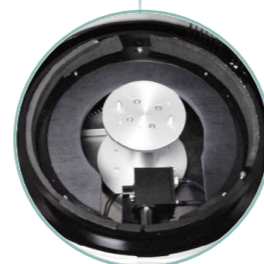
- 2.0-60 μ L aspiration, 0.1 μ L step
- Vertical, horizontal protection
- Liquid level detection, clot detection
- Inner& outer polished

Reagent disk

- 90 reagent positions, more items test in the same time, higher efficiency
- 24-hours refrigerator keeping at 2~12 $^{\circ}$ C, ensure reagents stability
- Uninterrupted loading and offloading

Sample disk

- 105 positions, calibration, QC, STAT, routine sample
- Random STAT position, STAT priority, friendly to emergency samples
- Built-in barcode scanner, auto register sample and reagent
- Uninterrupted loading and offloading



Features



Washing Station

- Imported pump and valve make less break-down
- 8-step washing make sure cuvette cleaned completely
- Flexible liquid system design, easier to maintain



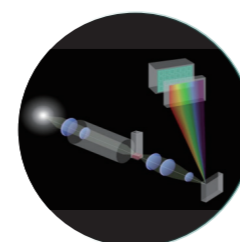
Calibration & QC

- Linear and non-linear calibration
- Each item supports multi-levels calibrator
- Daily/Monthly QC status ensure results stability and accuracy
- QC rule: default as Westgard multiple rules; QC chart: L-J chart
- Support review and query the history results of QC, calibration



Friendly-user software

- Real-time display reaction curve, calibration curve, QC curve
- Real-time monitor reagent inventory status
- Real-time monitor purified water, waste water, lamp, etc
- Auto rerun, diluent if on demand



Grating photometer

- 13 wavelengths, provide more detail and accurate λ_{max}
- Completely sealed optical system to make sure free interference
- Auto gain adjustment to assure stable optical system for precise absorbency

Quality Control	Westgard multi-rule, Levy-Jennings, Cumulative sum check, twin plot
Wash station	8-step wash
	White block to remove any bubble
Calibration	Water consumption: 18L/hour
	Linear (one-point, two-point and multi-point), Logit-Log 4P, Logit-Log 5P, Spline, exponential, Polynomial, Parabola
	Automatic calibration, manual calibration

Basic Features

- » Random access, fully automated, STAT
- » Throughput: constant 400 T/H
- » Maintenance-free grating photometer
- » 24-hour non-stop cooling system

Capacity

- » 105 sample positions
- » 120 reaction positions
- » 2 probes, 2 mixing bars