In addition to other laboratory tests, studies have shown that common clinical chemistry tests may be potential indicators of unfavorable COVID-19 progression in adult patients\(^1\). The EasyRA clinical chemistry analyzer is an essential component in performing clinical chemistry tests recommended in the assessment and treatment of critically ill COVID-19 patients.

Test Menu

Routine Chemistry
Albumin
Bilirubin – Direct
Bilirubin – Total
Calcium
Creatinine
Glucose
Phosphorous
Magnesium
Total Protein
Urea Nitrogen (BUN)
Uric Acid

Enzyme Assays
Alkaline Phosphatase
Alanine Aminotransferase (ALT)
Amylase
Aspartate Aminotransferase (AST)
Creatine Kinase
Gamma-Glutamyl Transferase
Lactate Dehydrogenase
Lipase

Cardiac Risk
HDL – Direct
LDL – Direct
Triglycerides
Cholesterol

Other Tests
CK-MB
CRP
Lithium

Anemia Assays
Iron
TIBC

Electrolytes
CO₂
Sodium
Potassium
Chloride

Urine Chemistry
Creatinine
Sodium
Potassium
Chloride
Microalbumin

Diabetic Monitoring
HbA1c

EasyRA® Specifications

Throughput
Photometric with ISE up to 480 results/hr
STAT time: 8 minutes

Samples
24 Positions per sample ring; 2 sample rings available

Sample Volume
Photometric chemistries: 2.0–25.0 μL
ISE chemistries: serum: 90 μL; urine: 140 μL

Sample Containers
Sample cups or primary tubes in a wide range of sizes

Sample Identification
Position ID, Barcode ID

Reagents
24 Refrigerated positions; RFID (Radio Frequency Identification) technology, 6 open channels

Reagent Volumes
R1/test 120–350 μL, R2/test 10–50 μL, (1 uL steps)

Water Supply
Reagent grade deionized water, CLRW or CAP Type II

Sampling System
Single probe with RF level sensing
Inner and outer probe washing
Probe pre-heater

Cuvettes
Disposable optical acrylic, 12 cuvettes per segment
Total of 72 cuvettes onboard

Reaction
1–15 Minutes
Xenon flash lamp

Wavelengths
340, 405, 520, 550, 600, 660, 700; Half bandwidth 10±2 nm

Quality Control
2 Levels of controls, Levey-Jennings charts

User Interface
Touch screen graphical interface

Data Storage
2000 Patient results, 56,000 test results
Ability to archive and retrieve results

Power Requirements
100 VAC–240 VAC ± 10%, 50–60 Hz, 4.0/2.0A

Size and Weight
40” w x 15” h x 26” d (102 cm x 38 cm x 66 cm), 88 lbs. (40 kgs)

Ambient Conditions
15º–30º C (59º–86º F), <85% relative humidity
Non-condensing atmospheric air environment

Computer Requirements
Minimum: Windows® 10**
CD/CD-RW; 1 RS-232 or USB port
Touch screen monitor or SVGA color monitor
Mouse and keyboard
Local or network printer

* Based on a 12-second cycle time. Actual tests per hour may vary.
** Windows is a registered trademark of Microsoft Corporation