

Smart....

Intuitive....

Assured Quality....

K^+

pH

Li^+

Cl^-

Na^+

Ca^{++}

HCO_3^-

CKK Lyte

CE



ARK

Diagnostics Bangalore Pvt. Ltd.

CKK Lyte - 1 instrument for 12 solutions



CKK Lyte Electrolyte analyzer is completely automated, microprocessor controlled electrolyte system that uses the latest ISE technology to make electrolyte measurements. It measures various combinations of Sodium, Potassium, Ionized Calcium, Lithium, pH, Chloride and Bicarbonate in whole blood, serum, plasma, CSF and urine.

It uses ionophore based (PVC) polymer electrodes which provide a constant potentiometric signal for an extended period of time to ensure accurate determination of blood electrolytes. Reproducibility & Accuracy of these electrodes is very high.



SALIENT FEATURES

- Compact, Economical and Easy to use
- Excellent precision and reliability
- Long life, high performance, maintenance-free electrodes
- Parameter conversion functionality which allows quick change of Analyte.
- Automatic sampling and calibration
- Intelligent reagent pack with electronic chip
- Battery back-up facility (Optional)
- Extremely low cost per test
- User Friendly Interfacing to Computers
- Feature to Integrate the instrument to High Capacity Reagent Pack

Ca⁺⁺
HCO

ANALYZE SAMPLE		ANALYZE SAMPLE	
Na = 111.573 mmol/L LOW	Na = 111.573 mmol/L LOW	K = 1.924 mmol/L LOW	K = 1.916 mmol/L LOW
iCa = 1.908 mmol/L HIGH	iCa = 1.908 mmol/L HIGH	pH = 7.097 LOW	pH = 7.095 LOW
PCO2=77.060 mmHg	PCO2=77.135 mmHg	HCO3=24.725 mmol/L	HCO3=24.629 mmol/L
Cl = 75.497 mmol/L LOW	Cl = 75.977 mmol/L LOW	CALCULATED PARAMETERS	
CALCULATED PARAMETERS		CALCULATED PARAMETERS	
AG = 11.351 mmol/L	AG = 10.968 mmol/L	AG(K+) = 13.275 mmol/L	AG(K+) = 12.884 mmol/L
TCO2 = 27.037 mmol/L	TCO2 = 26.943 mmol/L		

Electrolyte Analyzer Models

Electrode Parameters

BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K	K	K	K	K	K	K	K	K	K	K	K	K
Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
B	B	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa	B	B
B	B	B	B	Li	pH	Li	pH	Li	Li	pH	pH	pH
B	B	B	B	B	B	pH	B	B	pH	HCO	HCO	HCO
B	Cl	B	Cl	B	B	B	Cl	Cl	Cl	Cl	Cl	Cl
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	

Note: Please Arrange The Electrodes As Per The Parameter Selection



TECHNICAL SPECIFICATIONS

Method	Direct measurement by Ion Selective Electrode (ISE)
Sample Type	Whole Blood, Serum, Plasma, Urine or CSF
Sample Volume	100µl Whole Blood, Serum, Plasma or 500µl diluted (1:5) Urine
Analysis time	60 sec per sample
Throughput	60 tests/hr
Data Storage	1,00,000 Samples (25,000 Urine & 100 QC)
Calibration	Automatic or On-Demand
Output	128x64 pixel graphic display with numeric keypad, 24 column thermal printer and USB B port for data communication to software
Ambient Conditions	5-40 °C (below 30 °C for HCO ₃ configuration), <85% non-condensing humidity
Power	100/115-VAC, 50-60 Hz or 220-VAC, 50-60 Hz, 0.75 amp.
Size & Weight	8" W x 15" H x 14" L, 4 kg.

LINEARITY RANGES

Sample Type	Parameter							
	Na+ (mmol/L)	K+ (mmol/L)	iCa++ (mmol/L)	Cl- (mmol/L)	Li+ (mmol/L)	pH (units)	HCO ₃ - (mmol/L)	PCO ₂ - (mmHg)
Blood	20.0-250.0	0.2-40.0	0.1-6.0	25.0-200.0	0.3-5.0	4.0-9.0	5.0-50.0	10.0-120.0
Urine	35.0-1000.0	5.0-200.0	-	25.0-500.0	-	-	-	-

** Calculated Parameters in HCO₃- configuration are AG, AG(K+),TCO₂ & B.E

** Total Calcium (mg/dL)=iCa mmol/L x 7.9 OR iCa mg/dL x 1.9

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ISO 9001:2008



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