

Electrolyte Analyzers

DIESTRO 103 AP version 4 family

Compact and Powerful

- **Ion Selective Electrodes**
Digital and maintenance free
- **Upto 40 samples loading
at a time**
- **Expandable up to 5
simultaneous electrodes**
At request in any combination
- **Graphic display with touch screen**
- **LIS connection**
- **Quality control software**



Na⁺

K⁺

Cl⁻

Ca⁺⁺

Li⁺

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SPECIFICATIONS

Model	Automatic	Automatic Plus
Sample Type	whole blood, serum,	plasma, Urine and other biological substances
Manual sample load		
Automatic sample load with level detection	No	Up to 40 primary adult/pediatric tubes and/or cups
Sample volume	From 40 uL for Na+ K+	From 40 uL for Na+ K+
Expandable, up to 5 electrolytes simultaneously	Yes	Yes
Electrodes ISE, digital, maintenance free	Yes	Yes
Measurement time for Serum	Less than 60 seconds including rinse, 1 point calibration and printed report	
Throughput		60 samples per hour
Patient identification, alphanumeric, up to 20 characters	Yes	Yes
Graphic display with Touch Screen	Yes	Yes
Consumables	PACK containing calibrating, rinsing solution and waste container	
Calibration	Automatic, programmable and under demand	
USB Output	Yes	Yes
External barcode reader input	Yes	Yes
External keyboard input	Yes	Yes
Serial output (RS232)	Yes	Yes
Real time clock	Yes	Yes
Memory for samples results	1000	1000
Quick Guide on-screen	Yes	Yes
Built in thermal printer	Yes	Yes
Automatic calibration and rinsing	Yes	Yes
Fill port cleaning	Yes	Yes
Built in barcode reader	Optional	Optional
Electrolytes availables	Na* K*CrCa++Lit+	Na* K*CrCa++Lit+
Multilingual	Yes	Yes
Internal Battery	Optional	Optional
Power supply, external, 110/220 Volts input	15 VDC Output 37,5 W	15 VDC Output 37,5 W
Weight	0,8 Kgrs	1,3 Kgrs
Dimensions	H 24 cm, W 16 cm, D 18 cm	H 24 cm, W 16 cm, D 18 cm (w/o autosample)
QC feature, 3 levels including statistics	Yes	Yes
LIS connection	Yes	Yes

TECHNICAL DATA SHEET

	Sodium	Potassium	Chloride	Calcium	Lithium
Measurement Range Serum/Blood	40-220 [mmol/L]	1-30 [mmol/L]	20-250 [mmol/L]	0,2-5 [mmol/L]	0,2-5 [mmol/L]
Measurement Range Urine	20-300 [mmol/L]	2-150 [mmol/L]	20-300 [mmol/L]	Not applicable	Not applicable
Resolution	0,1 [mmol/L]	0,01 [mmol/L]	0,1 [mmol/L]	0,01 [mmol/L]	0,01 [mmol/L]
Reproducibility	C.V. <=1%	C.V. <=1%	C.V. <=1%		
within runs of 20 serum	S.D. <=1,6	S.D. <=0,08	S.D. <=1,25	S.D. <=0,05	S.D. <=0,06
Reproducibility within runs of 20 urines	C.V. <=10%	C.V. <=5%	C.V. <=5%	Not applicable	Not applicable

