

# ILyte™

*Automated electrolyte analyzers*



*The IL program for electrolyte analysis.  
Worry Free, Easy to Use  
Maintenance Free Electrodes*

- Ilyte Na<sup>+</sup>, K<sup>+</sup> analyzer
- Ilyte Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup> analyzer
- Ilyte Na<sup>+</sup>, K<sup>+</sup>, Li<sup>+</sup> analyzer
- Ilyte Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, pH analyzer



Electrolytes balance is an essential measurement in the assessment of several homeostasis disease. High or low concentrations of various electrolytes are linked to underlying disease processes.

Therefore, it's important to measure electrolytes directly, using a method that's quick, easy and accurate.

Instrumentation Laboratory offers a new family of automated electrolyte analyzers, plus a complete line of reagents and related quality control products, all supported by the world leader in pH/blood gas/electrolyte analysis.

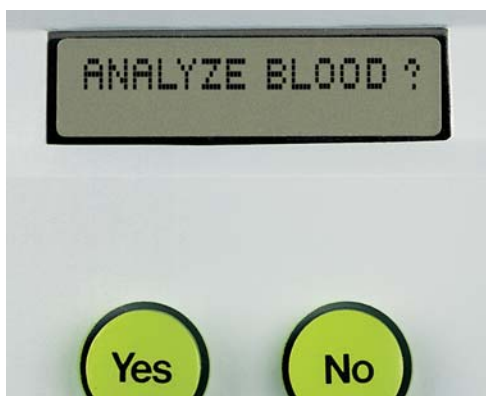
**One-minute electrolyte analysis** ✓

Ilyte™ systems measure electrolytes in only one minute from a single whole blood, plasma or serum sample. Urine samples in just 90 seconds. The systems can draw sample from a syringe or cup for quick and easy processing.

Results are presented on the alphanumeric display and printed automatically by the built-in thermal printer.

**Autosampler for quick and easy sampling** ✓

The optional 21-position autosampler brings added flexibility, and increases test throughput for routine procedures on most systems. After positioning the tray, you just press the “Yes” key and the system draws samples automatically, completing analysis in less than one minute. A stat sample may be run at any time.



Simple "Yes or No" instructions guide the user through every procedure.

### Simple to operate and maintain ✓

Operation and maintenance couldn't be easier. Simple "Yes or No" instructions guide the user through every procedure, so it takes less than a minute to learn the basic operation.

Electrodes are maintenance-free; and replacing them is simple.

All the necessary reagents and waste reservoir are contained in a one-step, plug-in disposable pack for safety and convenience.

### Fully automated operation, calibration, sampling and self-monitoring ✓

All operation cycles are fully automated, including calibration and sampling, so the system requires minimal operator involvement.

Ilyte maintenance-free electrodes ensure accurate test results every time, whether you're testing whole blood, serum, plasma or urine.

Ilyte systems automatically perform a complete calibration cycle every four hours, or at intervals that can be preset by the user according to individual laboratory needs.

Electrode response is stored in internal memory, and can be monitored at any time. The sample detector continuously monitors the sample and calibration solutions for air bubbles, virtually eliminating errors resulting from improper sample aspiration. Flushing cycles and automatic wiping of the sample probe following sample aspiration ensure proper cleaning of the sample pathway to prevent carry over.



All necessary reagents and waste reservoir are contained in a one-step, plug-in disposable pack.

Specifications	Ilyte Na <sup>+</sup> /K <sup>+</sup>
<b>Sample size</b>	
Whole blood, plasma, serum	100 µL
Urine (diluted 1:10)	400 µL
<b>Detection Range</b>	
Whole blood, serum or plasma	
Na <sup>+</sup>	20 to 200 mmol/L
K <sup>+</sup>	0,2 to 40 mmol/L
Cl <sup>-</sup>	-
Li <sup>+</sup>	-
Ca <sup>++</sup>	-
pH	-
Urine (undiluted)	
Na <sup>+</sup>	25 to 1000 mmol/L
K <sup>+</sup>	1,0 to 500 mmol/L
Cl <sup>-</sup>	-
<b>Reproducibility (typical within run, n=20)</b>	
Whole blood, serum or plasma	
Na <sup>+</sup> (80-200 mmol/L)	CV 1%
K <sup>+</sup> (1-10 mmol/L)	CV 2%
Cl <sup>-</sup> (80-200 mmol/L)	-
Li <sup>+</sup> (0.2-2.0 mmol/L)	-
Ca <sup>++</sup> (0.4-1.5 mmol/L)	-
pH (6.8-8.0 pH units)	-
Urine	
Na <sup>+</sup> (80-200 mmol/L)	CV 5%
K <sup>+</sup> (1-10 mmol/L)	CV 5%
Cl <sup>-</sup> (80-200 mmol/L)	-
<b>Analysis Time</b>	
Whole blood, serum or plasma	60 sec
Urine	90 sec
<b>Autosampler (Optional)</b>	
	21 positions
<b>Data output</b>	
Alphanumeric display	2 line x 16 character
Internal printer	40 column
Serial Port (RS 232)	1
<b>Additional on-board features</b>	
Patient Data Storage	100 results
Quality Control Program	Yes - 2 Levels
Critical Value Program	Yes
Diagnostic Program	Yes
<b>Dimensions</b>	
Weight	5,8 Kg 13 lbs
Width/depth/height	24x20x42 cm
	9.5x8.0x16.5 in



The maintenance-free electrodes are easily accessible and can be replaced in a snap.

<i>Ilyte Na<sup>+</sup>/K<sup>+</sup>/Cl<sup>-</sup></i>	<i>Ilyte Na<sup>+</sup>/K<sup>+</sup>/Li<sup>+</sup></i>	<i>Ilyte Na<sup>+</sup>/K<sup>+</sup>/Ca<sup>++</sup>/pH</i>
100 µL	100 µL	100 µL
400 µL	400 µL	-
20 to 200 mmol/L	20 to 200 mmol/L	20 to 200 mmol/L
0,2 to 40 mmol/L	0,2 to 40 mmol/L	0,2 to 40 mmol/L
25 to 200 mmol/L	-	-
-	0,0 to 5,0 mmol/L	-
-	-	0,1 to 6,0 mmol/L
-	-	6,0 to 8,0 pH units
25 to 1000 mmol/L	25 to 1000 mmol/L	-
1,0 to 500 mmol/L	1,0 to 500 mmol/L	-
25 to 500 mmol/L	-	-
CV 1%	CV 1%	CV 1%
CV 2%	CV 2%	CV 2%
CV 2%	-	-
-	SD 0.03	-
-	-	SD ≤ 0.02
-	-	SD ≤ 0.01
CV 5%	CV 5%	-
CV 5%	CV 5%	-
CV 5%	-	-
60 sec	60 sec	60 sec
90 sec	90 sec	-
21 positions	21 positions	-
2 line x 16 character	2 line x 16 character	2 line x 16 character
40 column	40 column	40 column
1	1	1
100 results	100 results	125 results
Yes - 2 Levels	Yes - 2 Levels	Yes - 3 Levels
Yes	Yes	Yes
Yes	Yes	Yes
5,8 Kg 13 lbs	5,8 Kg 13 lbs	5,8 Kg 13 lbs
24x20x42 cm	24x20x42 cm	24x20x42 cm
9.5x8.0x16.5 in	9.5x8.0x16.5 in	9.5x8.0x16.5 in



Less than one minute to learn  
the basic operation



## Complete system of reagents and QC products



An Ilyte system is more than an instrument. It's a full line of dedicated reagents and quality control products designed to ensure peak analytical performance. Every IL instrument is part of a comprehensive system that includes reagents, supplies, service, on-going training and technical support.

On-board rolling data storage with a capacity of 100 patient samples allows the laboratory to keep records and generate cumulative reports. Quality control results are also stored in memory, and may be printed with the relevant statistics at any time.

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