

piccolo^{xpress}[™] chemistry analyzer

Fast, easy, accurate on-site chemistry testing



INTELLIGENT QUALITY CONTROL (iQC™)

Be confident in every test result

Meticulous quality control (QC) is essential for accurate test results. Which is why the Piccolo xpress™, uses “intelligent Quality Control” (iQC™), a unique process that monitors the analyzer, the reagent disc, and the sample during each run to verify correct electronic and chemistry performance.

- iQC™ automatically suppresses any single chemistry test or the entire panel if the analyzer electronics or optics, reagent stability, chemistry reactions, sample integrity or compliance to the procedural steps are compromised
- Error codes or messages immediately alert the operator to any problems
- iQC™ performs hundreds of QC checks automatically and simultaneously with every disc run

Continuous iQC™ ensures accurate and reliable results every time

iQC™ works from start to finish to ensure that each test run is absolutely accurate. 0.1cc of whole blood, serum, or plasma is inserted directly into the reagent disc, where sample preparation occurs automatically. All reactions, including analyte, reagent and instrument QC testing, occur in solution within tiny cuvettes on the periphery of the disc. The Piccolo xpress™ generates powerful flashes of full-spectrum white light and measures absorption for each reaction at multiple wavelengths. To ensure accurate results, iQC™:

- Verifies the composition and delivery within the disc of all substances involved in the chemical reactions
- Validates the performance of the light-generating and detection components of the analyzer
- Audits the conversion of the light absorbance into digital values for use in mathematical algorithms

Reagent disc and iQC™ work flawlessly together

- iQC™ verifies the integrity of the bar code information on the disc (disc identification code, lot number, and expiration date), eliminating the possibility of using expired reagents
- Calibration information is automatically transferred to the analyzer’s memory for accurate calculation of results
- Disc-specific information is stored along with the system QC data in the analyzer’s memory for easy reference

Easy-to-read iQC™ report

Piccolo xpress			
Comprehensive Metabolic			
12 Jun 2006		03:50 PM	
Sample Type:		Patient	
Sample ID:		789	
Alternate ID:		845	
Gender:		Male	
Age:		24 Years	
Operator ID:		423	
Disc Lot Number:		52000	
Serial Number:		0000P02618	
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Instrument QC:			100
iQC 1:	100	340 nm:	100
iQC 2:	100	405 nm:	100
iQC 3:	100	467 nm:	100
iQC 4:	100	500 nm:	100
iQC 5:	100	515 nm:	100
iQC 6:	100	550 nm:	100
iQC 7:	100	600 nm:	100
iQC 8:	100	630 nm:	100
Range:	90-110		95-105

- Run-specific information
- Eight different system checks are carried out at the beginning of each run. In order to pass iQC™, the values must fall between 90 and 110%
- Contains results obtained in the chemistry iQC™ testing. Any value above the minimum indicates disc was stored correctly and all chemistries were viable at time of testing
- Any run that remains in the analyzer memory may be recalled and printed
- Bi-directional analyzer stores up to 5000 results which may be transferred to a data management system