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QUICKLAB®

# ULTRA SMART ABGE

## Arterial Blood Gas Analyzer




## ADVANDAGES

- Minimum Maintenance
- Easy to Operate
- Economical
- Accurate Results

# ULTRA SMART ABGE

## Arterial Blood Gas Analyzer

## Features

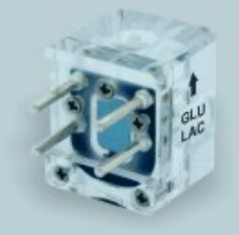
- Aspirate 1 sample and acquire 27 different results.

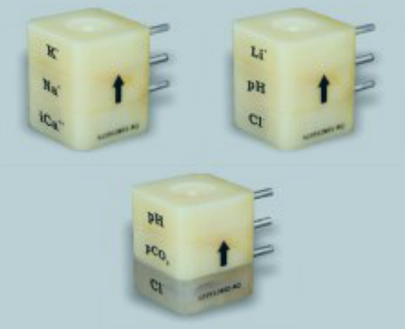
  **Blood gas** : pH, $pCO_2$, $pO_2$, Hct.
  **Electrolytes** : Na, K, iCa, Li, pH, Cl.
  **Metabolites** : GLU, LAC.
  **Calculated Parameters** : Hb, $HCO_3$, BE, BE-B, BE-ECF, $TCO_2$, AG, AG(K), $O_2$ Sat, $O_2$ Ct, SBC, nCa, TCa, $pO_2$%, A, $AaDO_2$ , a/A.

- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- Numeric & alpha numeric input option with 15 digit operator and patient ID.
- Self probe wiping facility with 3 different aspiration modes (sample tube, sample syringe & capillary).
- The result can be recalled by Date, Patient ID, Patient name, by parameters etc.
- External mouse & keypad interfacing option.
- 10 inch high definition LCD with capacitive touch screen.
- Single Reagent pack for all 16 combinations.
- Integrated Parameter conversion functionality.
- Single touch calibration for new reagent pack.
- Maximum 1,00,000 sample storage capacity.
- Optional battery backup & much more.
- Internal barcode scanner.
- Excellent precision and reliability.
- USB output port. (USB 2.0)
- Extremely low cost per test.
- Multilingual support.

## Specifications


| | | |
|---|---|---|
| Principle | : | Direct measurement with ion selective electrode (ISE), Impedence (Hct) and Amperometry ($pO_2$, GLU, LAC). |
| Reading time | : | 60 seconds. |
| Parameters | : | This functionality allows the change of analytes. |
| Sample Type | : | Whole blood, serum, plasma, CSF and diluted urine. |
| Conditioning | : | Temperature: 10°C - 30°C, <85% moisture. |
| Display | : | 10 inch high definition LCD with capacitive touch. |
| Print | : | 2 inch 24 column thermal printer. |
| Input voltage | : | 100/115-V AC, 50-60 Hz (or) 220V AC, 50-60 Hz, 0.75 amp. |
| Dimensions | : | 12.8" W x 17.3" H x 10.6" D, Weight: 7.55 kg. |
| OS | : | Android. |
| Analysis Speed | : | 60 Seconds. |
| Sample volume | : | 100µL (Capillary/Micro Mode). |
| Battery | : | Optional support for 4 hours. |
| Storage | : | 1,00,000 |




| ABGEM | ABGM | ABGE | ABG | ELECTROLYTE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD | BD |
| K Na iCa | K Na iCa | K Na iCa | B B B | K Na B | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na iCa | K Na B | K Na B |
| pH $pCO_2$ Cl | pH $pCO_2$ Cl | pH $pCO_2$ Cl | pH $pCO_2$ B | pH $pCO_2$ Cl | pH $pCO_2$ Cl | Li pH Cl | Li B Cl | B pH Cl | Li pH B | B pH B | Li B Cl | B B B | B B Cl | B B B | B B B |
| $pO_2$ Hct | $pO_2$ Hct | $pO_2$ Hct | $pO_2$ Hct | OB | OB | OB | OB | OB | OB | OB | OB | OB | OB | OB | OB |
| GLU LAC | LAC | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB | GLB |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ | ⑯ |

Parameter Combinations

| Parameter | Blood Measuring Range | Urine Measuring Range |
|---|---|---|
| Na+ | 20.0 - 250.0 mmol/L | 25.0 - 1000.0 mmol/L |
| K+ | 0.20 - 40.0 mmol/L | 1.0 - 500.0 mmol/L |
| Cl- | 25.0 - 200.0 mmol/L | 25.0 - 500.0 mmol/L |
| iCa++ | 1.0 - 20.0 mg/dL | -------- |
| Li+ | 0.2 - 5.0 mmol/L | -------- |
| pH | 5 - 9 | -------- |
| $pO_2$ | 10 - 750 mmHg | -------- |
| $pCO_2$ | 5 - 120 mmHg | -------- |
| $TCO_2$ | 5 - 50 mmol/L | -------- |
| Hct | 10 - 70 % | -------- |
| $HCO_3$ | 5 - 50 mmol/L | -------- |
| GLU | 20 - 800 mg/dL | -------- |
| LAC | 0.1 - 24 mmol/L | -------- |