

SPECIFICATIONS OF Automated Blood Gas (ABG) Analyser with Electrolytes and Lactate

- Fully automatic, upgradeable, fast analyzer with parameters for ABG, Electrolytes and Lactate.
- Essential Measured parameters; pH, pCO₂, pO₂, Haematocrit, Lactate, Na⁺, K⁺, Ca⁺⁺., Bilirubin. All these parameters should be measured simultaneously
- Calculated parameters should include Haemoglobin –cHgb, actual bicarbonate – cHCO₂, total Carbon Dioxide – cTCO₃, base excess of extra cellular fluid. - BE(ecf), base excess in Blood -- BE(b), Oxygen Saturation – cSO₂K
- Should have automatic calibration
- Should have automatic sample feeding, automatic detection and self-diagnosis of faults.
- Should have easy operation, fast analysis speed and high accuracy.
- Sample volume - less than 100 micro litre.
- Capillary port should be made available
- Fast analysis time – less than 60 sec.
- Data display should be on well-illuminated, adequate size screen display.
- Power Supply Using Rechargeable battery (lithium ion battery)
- Back up of 6 hours with Rechargeable battery.
- Data Storage for at least 100 patients.
- Calibration – Auto Calibration before every sample is inserted.
- Operating the machine- User Friendly Touch Screen.
- Ambient working temperature – 15 to 30 Degrees.
- Storage of reagents/cartridge – At Room Temperature
- **Stand by blood gas cum electrolyte analyzer in case of breakdown if more than 72 hours**
- Should have local service facility
- Should supply reagents / cartridge and other accessories for 3 years (2000 patients /year) in a staggered manner as per expiry date of reagents / cartridge.
- Should supply with calibration reagents for 3 years (100 per year) in a staggered manner as per expiry date of reagents / cartridge.
- Must submit User list and Performance report
- Demonstration is compulsory.
- Training of hospital engineers & staff.
- Operating and detailed service manual should be supplied.
- Rates of consumables & accessories should be freezed for 8 years.