ELECTROLYTE ANALYSER

TECHNICAL SPECIFICATIONS

1. Should have a measuring method of Ion Selective Electrode (ISE)
2. Should be able to measure sodium, potassium, chloride and calcium and body fluids.
3. Should have a throughput of minimum 50 samples per hour.
4. Should have separate electrode for sodium and potassium.
5. Resolution should be at least 0.1 mmol/litre for each parameter.
6. Should have automatic calibration, 1 and 2 point calibration, 2 point time bound.
7. Should have QC memory storage of at least 2 levels.
8. Stand –by mode user controlled and automatic.
9. Should have a measuring range for sodium 40 to 200 mmol/l, potassium 1.5 to 10 mmol/l
10. It should require 100 micro liter or lesser for whole blood serum.
11. It should have only one reagent module for all standards and wash solutions and waste also should be collected in the same module.
12. It should have only one cleaning reagents for electrodes and daily maintenance.
13. Should have printing facility.
14. Should supply reagent pack for 1000 tests, one internal filing solution of 125 ml, two cleaning solution of 15 ml and one quality control of 10 ml.
15. Should have an alpha numeric display.
16. Should have a memory of at least 20 samples.
17. Should work on 200-240 Vac 50 Hz power supply.
18. Should be supplied with off line pure sine wave UPS of sufficient capacity for a minimum back of 60 minutes.
19. Should be provided with calibration certificate issued by the manufacturer at the time of installation and calibration certificate should be issued for the machine by the supplier during preventive maintenance visit in the warranty / AMC period if demanded by the end user.
20. Should have safety certificate from a competent authority or valid detailed electrical and functional safety test report from competent authority. Copy of the certificate / test report shall be produced along with the technical bid.

TEC members

1) L. Saini 28/2/18 2) Sangeeta Naoren 3) [signature] 4) [signature]

Automated HbA1c analyzer

Technical specifications

1. Based on HPLC technology
2. IFCC certified
3. Measuring range 4% to 17% HbA1c
4. Throughput at least 22 tests/hour – A1c analysis in less than 3 minutes
5. Simple touch screen operation
6. Fully automated with at least 50 samples on-board capacity
7. Automatic sample identification via integrated barcode reader
8. Sample volume 10 µl (diluents mode) / 1.5 ml (whole blood mode)
9. Memory for 20,000 results
10. Test volume = 10µl of EDTA Blood

TEC members :

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2) Sangeeta Naoren .
3) [illegible]
4) [illegible]

DEPARTMENT OF BIOCHEMISTRY, RIMS, IMPHAL

Specifications of Chemiluminescence Analyzer:

1. Technology:
   a. Analyzer must be a proven Chemiluminescence technology for Immunoassays.

2. Automation:
   a. Fully automated, random access system which combines with STAT without disruption of routine testing.
   b. High throughput of not less than 90 tests/ hr.
   c. Ability to pause and restart the test without closing any data.

3. Reagent management:
   a. Long on-board stability of reagents (reagent stability for a minimum of 8 weeks)

4. Sample Management:
   a. Low sample volume (less than 100µl)
   b. Sample capacity = not less than 60 samples at a time.
   c. Universal sample tray
   d. Clot detection facility
   e. Level sensing
   f. Air bubble detection facility

5. Calibration:
   a. Random access calibration
   b. Calibration stable for not less than 4 weeks

6 Maintenance:
   a. Less maintenance
   b. Software driven maintenance
   c. Onboard service manual to help in terms of trouble shooting.

7. Wide menu & improved efficiency.
8. Non-contact ultrasonic mixing
9. Intelligent work flow management
10. e-link facility
11. Ambient working temperature range: room temperature (15 to 30°)
12. System power= 200-240 V (line voltage)
13. To be supplied with a suitable printer.
14. To be provided with UPS for power back up.

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1) L. Shaini (2) Sangeeta Naorem (3) [illegible] (4) [illegible]