

Ministry of Health

Directorate of Biomedical Engineering Technical Specifications



Item Description:

Manufacturer

Model Number

Safety Standard

Configuration

Application

Method

Reference Centers

Throughput, test / hour

Electrolytes Channel

Measurement Tests

Sample Compartment

Reaction Compartment

Reagent Compartment

Calibration and Quality Control

Optical Unit

Auto Wash

Barcode Reader

Control Unit

Dilution

Technical Specifications

Starting Production Year (Hardware)

No

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Automated Clinical Chemistry Analyzer (Health Centers - High Load)

Not less than 30 positions with continuous loading ability

Liquid level and air bubbles (foam) detection

Monochromatic and biochromatic modes

Reagent identifications

Multiple wavelengths

For Sample / reagent probes

Auto sample pre-dilution (when needed)

Calibrators / controls identifications

PC control with screen and original software

Must supplied external hand-held barcode reader

Reaction cells or cuvettes

Refrigerated

Automated

period)

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ed Clinical Chemistry Analyzer Quantity (40) alth Centers - High Load)			
MIN. MOH Requirement			
Please specify manufacturer, country of origin and country of manufacture of the offered equipment			
Please specify model number of the offered equipment			
FDA approval or CE marking or EC-IVD			
Not more than 8 years			
Please specify reference centers in Jordan and Middle East			
Floor type			
Random access analyzer			
Photometric, electrolyte and whole blood			
 Photometric only not less than 300 tests / hour Electrolytes only not less than 200 tests / hour HbA1c only not less than 50 tests / hour 			
 Built in Sodium, potassium and chloride Liquid level and air bubbles (foam) detection 			
See attached annex 1			
 Not less than 30 position with continuous loading ability Serum, plasma and whole blood Primary tubes with different tube size STAT functionality required Liquid level and clot detection Sample identifications 			
Reusable reaction cells or cuvettes (please specify replacement			

No	Technical Specifications	MIN. MOH Requirement
21	Analyzer Software	 Friendly and easy to use Reagent management (lot number, expiry date, volume level (number of tests), inventory data) Quality control monitoring Ability to hold abnormal results and if there is QC issue Full control and data processing Administrator (supervisor) password Ability to export results Sample tracking Real time patient result Errors log
22	Alarm System (audible or visual)	 Hardware failures Reagent expired Reagent low / high temperature Sample / reagent volume level Water level (ready to use wash) Reagent air bubbles (foam) Sample clot
23	Printer	High quality external laser printer, (A4 paper)
24	Uninterruptible Power Supply	Required on-line and minimum enough for 30 minutes
25	RO System with Softener or Ready to use wash reagents	 Any brands RO system whether international or national (locally) Must be approved by manufacture (official letter from manufacturer) If used ready to use wash reagents must be provided (FOC) for all period of contract
26	Startup	Minimum one kit for all tests for each analyzer and must be provided (FOC) with enough consumables, controls and calibrators
27	Interfaces	 Bidirectional HIS/LIS interface and must be compatible and connected with Hakeem system USB ports Network interface
28	Power Supply	220 V / 50 Hz