



Bait Al Batterjee Medical Trading Co.

Saudi German Hospital Group

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Vender :	Mobile : 00966 505 640 079 - 00966 561 052 512
Attention : Sales Manager	
Enclosed please find our Tender Document for LAB DEPARTMENT	
Please submit your best prices for the following items complete specification, Catalogue copy & C.V for units	
Your offer in witting should reach to the undersign before 15 / Dec / 2008	
You may quote your equivalent product if you are unable to offer the specification item	

General Requirements for the Negotiable Tender

- 1- The Manufacture has to offer the Highest & Latest model in the required Item with all the Encouraging specification which let the dean of the tender to choose the Product.
- 2- The offer must contain all Hardware & Software available At time of tender.
- 3- The Manufacture will apply all the Upgrade will be added to the unit Free of Charge.
- 4- The Manufacture will offer clear C.V of the Same Model in his quotation with year of production.
- 5- Warrantee is (5) years including labor & Spare parts & Accessories needed for the perfect work of the unit.
- 6- The Manufacture will assure the wok of the unit during the Warrantee with Minimum of 320 days / Year.
- 7- It will be Service Contract for (5) years after the warrantee period in the offer of the manufacturer.
- 8- It's better for the Manufacturer to offer Basic Unit & alternative for each item.
- 9- It's well known that The Company which will win the Tender is going to Sign the Contract with SGH Group.
- 10- This Contract Details will be Discuses with the Company after The Evaluation with the whole Higher Management SGH Group.
- 11- The specification in the book is the nearly accepted but not restricted so each Company Can offer the best Models which Help doctors & Staff to Offer the Best Benefits for the Patient.

Dr. MOHY KHALIL
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DEPARTMENT: LAB

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CHEMISTRY ANALYZER FULLY AUTOMATED.**ITEM NO: 1****BIOCHEMISTRY**

Specification For: CHEMISTRY ANALYZER FULLY AUTOMATED	QTY
<ul style="list-style-type: none"> - System: - Random and continuous access, sample selective analyzer integration of 4 measuring principles 36 tests onboard - Absorbance Photometry, Turbidimetry, Fluorescence Polarimetry and Ion-selective electrode potentiometry - Test throughput: Up to 400 tests/hr (including electrolytes) - Sample Types: Serum, Plasma, Urine, CSF, Hemolysate - Sample Handling: 90 primary or secondary tubes onboard Up to 6 rack position for controls - Sample container types: - Primary tube: 5 to 10 ml; 16x100, 16x75x 13x100x 13x75 mm - Sample cup: 2.5 ml - Micro cup: 1.5 ml - Cup on tube: Definable - Sample volume: Typically 2 to 10 ul, ISE indirect 20 ul, ESE direct 97 ul - Sample barcode types: Code 128, Coda bar 2 to 7, Interleaved 2 of 5, Code 3 of 9 - Reagents: Onboard capacity 32 cassettes, 50-800 tests per cassette Up to 8 rack of 4 cassettes onboard, automatic reconstitution - Reaction cells: Holds 1000 disposable cuvettes with 5 mm path length, and 120-240 ul reaction volume - Control Unit: Windows NT PC - System Interfaces: RS 232 serial interface, bi-directional, modem for remote diagnostics access - Water requirements: Up to 2 liters per hour - Voltage: 110V-220V 60 Hz 	1

REFLOTRON-IV

ITEM NO: 2

BIOCHEMISTRY

Specification For: REFLOTRON-IV	QTY
<u>REFLOTRON-IV.</u>	1

Na+K+Li ANALYZER

ITEM NO: 3

BIOCHEMISTRY

Specification For: Na+K+Li ANALYZER	QTY
<u>Na+K+Li ANALYZER</u>	1

BLOOD GAS ANALYZR.

ITEM NO: 4

BIOCHEMISTRY

Specification For: BLOOD GAS ANALYZR	QTY
<p style="text-align: center;"><u>BLOOD GAS ANALYZR.</u></p> <ul style="list-style-type: none"> - Measured Parameters - Rang Unit - pH 6.001-8.000 pH - H⁺ 10.0-999.7 nmol/L - PCO₂ 5.0-250.0 mmHg 0.67-33.33 kPa - pO₂ 0.0-749.0 mmHg 0.00-99.86 kPa - pAtm 400-825 mmHg 53.3-110.0 kPa - Sample Size: Syringe 85 ul, Capillary: 60 ul - Analysis time: time to result: 45 seconds nominal - External Interface: Two RS 232 ports - Environmental requirements: - Temp.: 15-32oC, Humidity: 5-85% non condensing - Voltage: 110V-220V 60 Hz 	1

CNTRIFUGE FLOOR STANDING

ITEM NO: 5

BIOCHEMISTRY

Specification For: CNTRIFUGE FLOOR STANDING	QTY
<p data-bbox="475 562 954 595" style="text-align: center;"><u>CNTRIFUGE FLOOR STANDING</u></p> <ul data-bbox="199 629 702 954" style="list-style-type: none">- Maximum speed (rpm):- Swing out: 4500- Angular: 8000- Maximum RCF:- Swing out: 4300- Angular: 9320- Maximum capacity- Swing out/Angular: 4x750 ml/ 8x100 ml- Temperature range: 0 to 40oC- Maximum power (VA): 1300- Voltage: 110V-220V 60 Hz	1

SEROLOGY+ HORMONES AND DRUG SYSTEM.

ITEM NO: 6

SEROLOGY & HORMONES

Specification For: SEROLOGY+ HORMONES AND DRUG SYSTEM.	QTY
<u>SEROLOGY+ HORMONES AND DRUG SYSTEM.</u>	1

BEP III ELISA PROCESSOR

ITEM NO: 7

SEROLOGY & HORMONES

Specification For: BEP III ELISA PROCESSOR	QTY
<u>BEP III ELISA PROCESSOR</u>	1

SEROLOGY+HORMONE ANALYZER. (BACK-UP)**ITEM NO: 8****SEROLOGY & HORMONES**

Specification For: SEROLOGY+HORMONE ANALYZER. (BACK-UP)	QTY
<p style="text-align: center;"><u>SEROLOGY+HORMONE ANALYZER. (BACK-UP)</u></p> <ul style="list-style-type: none"> - System: - Fully automated, sample selective analyzer heterogeneous immunoassays, multi batch mode, self contained - Test throughput: Maximum throughput 60 results/hr - Sample Types: Serum, Plasma - Sample Handling: 66 samples on multi purpose carousel - Sample container types: - Primary tube: 5 to 10 ml; 16x100, 16x75x 13x100x 13x75 mm - Sample cup: 2.5 ml - Micro cup: 1.5 ml - Cup on tube: cup on top of a 16x75/100 mm tube - Sample volume: 5 to 50 ul - Sample barcode types: Code 128, Coda bar (NW 7), Interleaved 2 of 5, Code 39 - Reagents: Ready to use RackPacks with 2-D barcode, reagent compartment at ambient temperature, on board capacity max. 6 tests - Reaction Vessels: 128 disposable cups - Liquid Handling: Rainsed probe with NANO coating, liquid level and clot detection, sample and test specific dilution - Control Unit: Customised keyboard and computer - System Interfaces: RS 232 serial interface, bi-directional, query and batch mode - Voltage: 110V-220V 60 Hz 	1

MICROTOME ROTARY**ITEM NO: 9****HISTOPATHOLOGY**

Specification For: MICROTOME ROTARY	QTY
<p data-bbox="539 586 890 622" style="text-align: center;"><u>MICROTOME ROTARY</u></p> <ul data-bbox="199 654 1173 952" style="list-style-type: none">- Section thickness Increments: 1 to 60um- Horizontal feed range: 30mm- Vertical Stroke Length: 70 mm- Lateral knife holder displacement approx 20 mm to left/right- Knife holder displacement towards and away from the specimen: Approx, 30mm- Trimming function with 2 Setting: 10 & 30um- Lateral coarse feed system, counterclockwise operation (CCW)- Clamping lever repositioning of 360- Dimension: (L x W x H) 475 mm x 525 mm x 295 mm- Voltage: 110V-220V 60 Hz	1

TISSUE EMBEDDING CENTER**ITEM NO: 10****HISTOPATHOLOGY**

Specification For: TISSUE EMBEDDING CENTER	QTY
<p data-bbox="488 555 943 584" style="text-align: center;"><u>TISSUE EMBEDDING CENTER</u></p> <ul data-bbox="201 618 1203 824" style="list-style-type: none">- Power Consumption: 800 VA- Operating temperature range: +18 degree up to +35 degree- Compact bench top unit with integrated holder for tweezers on the right side, Microprocessor controlled operation, Menu driven, control planer with 2- line digital display for temperature- Dimension: (L x D x H) 910 mm x 575 mm x 320 mm- Voltage: 110V-220V 60 Hz	1

AUTOMATED VACUUM TISSUE PROCESSOR FREESTANDING UNIT**ITEM NO: 11****HISTOPATHOLOGY**

Specification For: AUTOMATED VACUUM TISSUE PROCESSOR FREESTANDING UNIT	QTY
<u>AUTOMATED VACUUM TISSUE PROCESSOR FREESTANDING UNIT</u> <ul style="list-style-type: none">- Admissions: UL, c-UL, CE Capacity: 300 Cassettes- Retort volume: Max. 4.31- Operating temperature range: 15 degree up to 40 degree- Relative air humidity: Max. 80% with non-condensing- Dimension: (L x W x H) 141 mm x 83 mm x 100 mm- Voltage: 110V-220V 60 Hz	1

CRYOSTAT MICROTOME WITH PELTER COOLING SYSTEM.

ITEM NO: 12

HISTOPATHOLOGY

Specification For: CRYOSTAT MICROTOME WITH PELTER COOLING SYSTEM.	QTY
<p data-bbox="252 548 1177 582"><u>CRYOSTAT MICROTOME WITH PELTER COOLING SYSTEM.</u></p> <ul data-bbox="199 616 877 795" style="list-style-type: none">- Admissions: CE, UL, c-UL, VDE- Maximum specimen size: 55mm diameter- Horizontal specimen feed: 25 mm- Vertical specimen stroke: 59mm- Dimension: (W x D x H) 730 mm x 730 mm x 1140 mm- Voltage: 110V-220V 60 Hz	1

HYPER CLEAN WITH VENT ADAPTER KIT.

ITEM NO: 13

HISTOPATHOLOGY

Specification For: HYPER CLEAN WITH VENT ADAPTER KIT.	QTY
<p style="text-align: center;"><u>HYPER CLEAN WITH VENT ADAPTER KIT.</u></p> <ul style="list-style-type: none"> - Steel Frames, epoxy coated for outstanding chemical resistance - Truly reversible design...Switch for horizontal to vertical format - Clear acrylic for maximum light transmission - 152.4 cm width of Hyper clean 60 houses linear equipment or provides a dual workstation - Dimension: (H x W x D) 64 cm x 152.4 cm x 64 cm - Voltage: 110V-220V 60 Hz 	1

CENTRIFUGE CYOTEK

ITEM NO: 14

HISTOPATHOLOGY

Specification For: CENTRIFUGE CYOTEK	QTY
<p data-bbox="533 551 895 584" style="text-align: center;"><u>CENTRIFUGE CYOTEK.</u></p> <ul data-bbox="199 618 1225 792" style="list-style-type: none">- Ensures specimen integrity through automatic, microprocessor-processor controlled, Paced acceleration is "Always on" eliminating operator bias in assessing cell fragility, Speed adjust form 500 to 2500 rpm in 100-rpm increments- Viewing area up to 14x30 mm- Dimension: (W x D x H) 36 cm x 38 cm x 23 cm- Voltage: 110V-220V 60 Hz	1

HOT PLATE SLIDE DRYING.**ITEM NO: 15****HISTOPATHOLOGY**

Specification For: HOT PLATE SLIDE DRYING.	QTY
<p data-bbox="501 589 927 622" style="text-align: center;"><u>HOT PLATE SLIDE DRYING.</u></p> <ul data-bbox="199 651 948 831" style="list-style-type: none">- Temperature: > 60°C- Power: 75 VA- Material inside & dry edges equipment: Aluminum Malt black- Main switch: Pilot lamp: Thermostat, LCD Display- Dimension: 350 mm x 225 mm x 70 mm- Voltage: 110V-220V 60 Hz	1

MICROSCOPE ECLIPS E-400 WITH LENSES, CAMERA AND MONITOR.

ITEM NO: 16

HISTOPATHOLOGY

Specification For: MICROSCOPE ECLIPS E-400 WITH LENSES, CAMERA AND MONITOR.	QTY
<p><u>MICROSCOPE ECLIPS E-400 WITH LENSES, CAMERA AND MONITOR.</u></p> <ul style="list-style-type: none"> - Magnification:10 -1500x for observation 2-500x for 35mm photomicrography, Optical system: CF 160 infinity optical system par focal distance 60 mm - Y-SRT Mechanical stage (R1) - Y-TP Trinocular tube "F" UW - CFT 10x. with Diopter adjustment - C-Mount TV Adapter 0.45x - CCD camera - 21" color Monitor - Voltage: 110V-220V 60 Hz 	1

**PROTECTRO WORK STATION WITH BUILT IN BLOWER FOR DUCTING
TO TH OUTSIDE.**

ITEM NO: 17

HISTOPATHOLOGY

Specification For: PROTECTRO WORK STATION WITH BUILT IN BLOWER FOR DUCTING TO TH OUTSIDE.	QTY
<p align="center"><u>PROTECTRO WORK STATION WITH BUILT IN BLOWER FOR DUCTING TO TH OUTSIDE.</u></p> <ul style="list-style-type: none"> - Side walls are hardboard covered with phenolic/melamine laminate, and the top and exterior back are epoxy coated steel - One 30-watt fluorescent light, airfoil, and an 8-foot, a stainless steel grille with baffle is located in the rear of the workstation. - Blower draws 3 amps and is capable of overcoming external static pressure loss of 33" H₂O at 50 fpm - Dimension: W x D x H) 151.8 cm x 56.7 cm x 59.7 cm - Working depth is 34.96 cm - Voltage: 110V-220V 60 Hz 	1

CIRCULAR PARAFFIN SECTION MOUNTING BATH**ITEM NO: 18****HISTOPATHOLOGY**

Specification For: CIRCULAR PARAFFIN SECTION MOUNTING BATH	QTY
<p data-bbox="331 589 1098 622" style="text-align: center;"><u>CIRCULAR PARAFFIN SECTION MOUNTING BATH</u></p> <ul data-bbox="199 651 766 770" style="list-style-type: none">- External dia. 320x150mm- Temperature range: +5 degree to+65 degree- Accuracy: +/- 1.5%- Voltage: 110V-220V 60 Hz	1

HOT AIR OVEN GABY**ITEM NO: 19****HISTOPATHOLOGY**

Specification For: HOT AIR OVEN GABY	QTY
<p data-bbox="549 589 880 622" style="text-align: center;"><u>HOT AIR OVEN GABY</u></p> <ul data-bbox="199 651 738 860" style="list-style-type: none">- Digital thermoregulation- Maximum temperature +200°C- Stainless steel chamber- Dimension:- Internal dia. 280 mm x 190 mm x 210 mm- External dia. 500 mm x 300 mm x 300 mm- Voltage: 110V-220V 60 Hz	1

14 DRAWER SLIDE FILLING CABINET GREEN.**ITEM NO: 20****HISTOPATHOLOGY**

Specification For: 14 DRAWER SLIDE FILLING CABINET GREEN.	QTY
<p data-bbox="363 577 1066 616" style="text-align: center;"><u>14 DRAWER SLIDE FILLING CABINET GREEN.</u></p> <ul data-bbox="199 645 1085 734" style="list-style-type: none">- Cabinet for the storage of mainly 76x26 mm microscope slides vertically.- 6000 slides- Dimension: 480mm x 480 mm x 140 mm	1

PLASTIC BLOCK FILLING CABINET.**ITEM NO: 21****HISTOPATHOLOGY**

Specification For: PLASTIC BLOCK FILLING CABINET.	QTY
<p data-bbox="437 586 992 622" style="text-align: center;"><u>PLASTIC BLOCK FILLING CABINET.</u></p> <ul data-bbox="199 651 1086 801" style="list-style-type: none">- Rigid plastic construction provides a strong, robust structure- Each unit contains six drawers with smooth-sliding action, even when full- Attractive storage system- Drawers contain plastic divider tray, total capacity of 1500 block- Dimension: 50 cm x 16 cm x 52 cm	1

HEMATOLOGY ANALYZER.**ITEM NO: 22****HEMATOLOGY**

Specification For: HEMATOLOGY ANALYZER.	QTY
<p data-bbox="501 589 928 622" style="text-align: center;"><u>HEMATOLOGY ANALYZER.</u></p> <ul data-bbox="199 651 1278 801" style="list-style-type: none">- Principles: DC detection method (RBC, PLT), Flowcytometry by using a semiconductor laser (WBC)- Parameters: WBC, NEUT%, LYMPH%, MONO%, EO%,BASO#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-DS, RDW-CV,PLT,PDW**, MPV AND P-LCR- Voltage: 110V-220V 60 Hz	1

BLOOD CELL COUNTER ANALYZER.

ITEM NO: 23

HEMATOLOGY

Specification For: BLOOD CELL COUNTER ANALYZER.	QTY
<p style="text-align: center;"><u>BLOOD CELL COUNTER ANALYZER.</u></p> <ul style="list-style-type: none"> - Parameters: - RBC, WBC, PLT, Hgb, Hct, MCV, MCH, MCHC, RBC & PLT histograms - Pct, MPV, PDW, RDW, Lymphocytes (% and #), Monocytes (% and #), Granulocytes (% and absolute count), LMG histogram - WBC, RBC & PLT histograms - Sample Processing: - On open tube or closed tubes with 4 position-tube holder (3 or 5 ml tubes) - Sampling: - Only 10uL of whole blood - Automatic cleaning of the sampling needle (internal/external) - Throughput: - 55 samples/hour - Identification: - Alphanumerical keyboard: Patient run number, Sequence number - Flags: - Counting failure flags - Programmable normal limits - Pathological flags (WBC, RBC, PLT) - Dimension: (H x W x D) 42 cm x 36 cm x 32 cm - Voltage: 110V-220V 60 Hz 	1

HEMATEK SLIDE STAINER.**ITEM NO: 24****HEMATOLOGY**

Specification For: HEMATEK SLIDE STAINER.	QTY
<p data-bbox="507 586 927 622" style="text-align: center;"><u>HEMATEK SLIDE STAINER.</u></p> <ul data-bbox="199 651 1273 770" style="list-style-type: none">- Continuous feed loading platform eliminates wasted time associated with batch methods.- Stains 60 slides/hour- Dimension: D x W x H) 43.4 cm x 47.0 cm x 19.0 cm- Voltage: 110V-220V 60 Hz	1

BINNOCULAR MICROSCOPE**ITEM NO: 25****HEMATOLOGY**

Specification For: BINNOCULAR MICROSCOPE	QTY
<p data-bbox="496 584 935 622" style="text-align: center;"><u>BINNOCULAR MICROSCOPE</u></p> <ul data-bbox="199 651 576 801" style="list-style-type: none">- Microscope Stand: CHS-1- Binocular Tube: CH BI 45-W- Filter Holder: CH2-FH- 6V/20W halogen bulb, 2 pcs- Voltage: 110V-220V 60 Hz	1

TEST TUBE AGGLUTINATION VIEWER.

ITEM NO: 26

HEMATOLOGY

Specification For: TEST TUBE AGGLUTINATION VIEWER.	QTY
<u>TEST TUBE AGGLUTINATION VIEWER.</u>	1

ADAMS NUTATOR MIXER.

ITEM NO: 27

HEMATOLOGY

Specification For: ADAMS NUTATOR MIXER.	QTY
<u>ADAMS NUTATOR MIXER.</u>	1

AUTOMATED COAGULATION ANALYZER.

ITEM NO: 28

HEMATOLOGY

Specification For: AUTOMATED COAGULATION ANALYZER.	QTY
<u>AUTOMATED COAGULATION ANALYZER.</u>	1

**CENTRIFUGE WITH SWING OUT ROTOR, ROUND BUCKETS, TUBE
RACK/ADULT AND MICRO TIMER ROUTOR.**

ITEM NO: 29

HEMATOLOGY

Specification For: CENTRIFUGE WITH SWING OUT ROTOR, ROUND BUCKETS, TUBE RACK/ADULT AND MICRO TIMER ROUTOR.	QTY
<p align="center"><u>CENTRIFUGE WITH SWING OUT ROTOR, ROUND BUCKETS, TUBE RACK/ADULT AND MICRO TIMER ROUTOR.</u></p> <ul style="list-style-type: none"> - Volume: 4x100 ml - Speed: - Maximum speed/RCF: 13500 rpm/17310 xg - Minimum speed/RCF: 250 rmp/10 xg - Speed selection: knob controlled, 250 rpm increments - Speed display: Preset and actual speed digital - Running time: - Maximum time: 60 min. - Minimum time: 1 min - Brake: automatically controlled brake force with soft stop - Features: Microprocessor controlled - Rotor identification - Momentary button for short runs display of running time in sec. - Voltage: 110V-220V 60 Hz 	1

BLOOD DIFFERENTIAL COUNTER 12 KEYS.

ITEM NO: 30

HEMATOLOGY

Specification For: BLOOD DIFFERENTIAL COUNTER 12 KEYS.	QTY
<u>BLOOD DIFFERENTIAL COUNTER 12 KEYS.</u>	1

ROCK' N ROLLER (TUBE MIXER)

ITEM NO: 31

HEMATOLOGY

Specification For: ROCK' N ROLLER (TUBE MIXER)	QTY
<u>ROCK' N ROLLER (TUBE MIXER)</u>	1

HEMATOLOGY ANALYZER.**ITEM NO: 32****HEMATOLOGY**

Specification For: HEMATOLOGY ANALYZER.	QTY
<p data-bbox="501 589 927 622" style="text-align: center;"><u>HEMATOLOGY ANALYZER.</u></p> <ul data-bbox="199 651 798 981" style="list-style-type: none">- 18 parameter Hematology profile- 3-Part differential- Histograms (WBC, RBC, PTL)- 60 samples per hour- Advance data management- Automated probe wipe- Electronic impedance- Volumetric metering- Lysate modified differential- Dimension: (H x D x W) 49 cm x 66 cm x 87 cm- Voltage: 110V-220V 60 Hz	1

BINNOCULAR MICROSCOPE**ITEM NO: 33****PARASITOLOGY**

Specification For: BINNOCULAR MICROSCOPE	QTY
<p style="text-align: center;"><u>BINNOCULAR MICROSCOPE</u></p> <ul style="list-style-type: none">- Microscope Stand: CHS-1- Binocular Tube: CH BI 45-W- Filter Holder: CH2-FH- 6V/20W halogen bulb, 2 pcs- Voltage: 110V-220V 60 Hz	1

URINE CHEMISTRY ANALYZER**ITEM NO: 34****PARASITOLOGY**

Specification For: URINE CHEMISTRY ANALYZER	QTY
<p data-bbox="472 589 959 622" style="text-align: center;"><u>URINE CHEMISTRY ANALYZER</u></p> <ul data-bbox="199 651 1222 860" style="list-style-type: none">- Determines urine color- Distinguishes between intact red blood cells and hemolyzed occult blood- Performs these chemistries Leukocytes, Glucose, Bilirubin, Ketone, Specific Gravity, Nitrite, PH, protein, Urobilinogen, Blood- Operates on line power with battery- 50-results memory for transfer to a computer- Voltage: 110V-220V 60 Hz	1

URINE ANALYZER.**ITEM NO: 35****PARASITOLOGY**

Specification For: URINE ANALYZER.	QTY
<p data-bbox="571 577 863 613" style="text-align: center;"><u>URINE ANALYZER.</u></p> <ul style="list-style-type: none"><li data-bbox="199 645 794 674">- Compact semi-automated urinalysis instrument<li data-bbox="199 676 544 705">- Throughput of 100 tests/h<li data-bbox="199 707 778 736">- Accelerated-or fast mode for up to 300 tests/h<li data-bbox="199 739 660 768">- Automatic urine color determination<li data-bbox="199 770 608 799">- Memory capacity of 150 results<li data-bbox="199 801 895 831">- Data management: LC-display, 1 line with 16 characters<li data-bbox="199 833 1241 882">- Measuring system: 1 measuring head with 3 LEDs wavelengths: 557 nm, 620 nm, 656 nm<li data-bbox="199 884 549 913">- Reading time: 60 seconds<li data-bbox="199 916 863 945">- Dimension: (W x D x H) 349 mm x 470 mm x 195 mm<li data-bbox="199 947 560 976">- Voltage: 110V-220V 60 Hz	1

URINE ANALYZER URILUX

ITEM NO: 36

PARASITOLOGY

Specification For: URINE ANALYZER URILUX	QTY
<u>URINE ANALYZER URILUX.</u>	1

**AUTOMATED APPLICATOR & ELECTROPHORESIS SYTEM WITH
SCANNER/DENSITOMETER QUICK SCAN-2000.**

ITEM NO: 37

PARASITOLOGY

Specification For: AUTOMATED APPLICATOR & ELECTROPHORESIS SYTEM WITH SCANNER/DENSITOMETER QUICK SCAN-2000.	QTY
<p align="center"><u>AUTOMATED APPLICATOR & ELECTROPHORESIS SYTEM WITH SCANNER/DENSITOMETER QUICK SCAN-2000.</u></p> <ul style="list-style-type: none"> - Sample Application number: 10 to 9, Sample location: +/- 20 mm - Voltage and time range: 0 to 200 Volts, 15 second to 99 min - Test memory: 15 preprogram able test - Electrophoresis Chamber: *Sample Well plate with detachable cap, *Washing compartment, *Migration compartment - Dimension: H x W x D 12.5x35.4x35.4 cm - Optics: Flatbed document scanner - Scan speed: 60 samples in 12 second - Scan, pads: Automatic, manual - Patient image included on display and report - Voltage: 110V-220V 60 Hz 	1

NEPHELOMETR 100.

ITEM NO: 38

PARASITOLOGY

Specification For: <u>NEPHELOMETR 100.</u>	QTY
<u>NEPHELOMETR 100.</u> Voltage: 110V-220V 60 Hz	1

CENTRIFUGE CRYFUGE SYSTEM**ITEM NO: 39****BLOOD BANK**

Specification For: CENTRIFUGE CRYFUGE SYSTEM	QTY
<p data-bbox="459 577 970 616" style="text-align: center;"><u>CENTRIFUGE CRYFUGE SYSTEM</u></p> <ul data-bbox="199 645 726 974" style="list-style-type: none">- Maximum speed: 4000 rmp- Temperature: 0 to + 40°C- Run time: 1 min to 99 h- Maximum RCF: 3774x9- Dimension: 700 mm x 760 mm x 575 mm- One set of balancing plates- Plastic inserts- Round buckets- Swing-out rotor- Hermetically sealing lids- Voltage: 110V-220V 60 Hz	1

DIGITAL BLOOD SHAKER/FLOW AND WEIGHT MONITOR**ITEM NO: 40****BLOOD BANK**

Specification For: DIGITAL BLOOD SHAKER/FLOW AND WEIGHT MONITOR	QTY
<p data-bbox="272 584 1158 618" style="text-align: center;"><u>DIGITAL BLOOD SHAKER/FLOW AND WEIGHT MONITOR</u></p> <ul data-bbox="199 651 1134 913" style="list-style-type: none">- Short bleed times- Milliliter or gram mode, full or partial bag, at the touch of a finger- Flow rate indicator visible from 20 ft for immediate response to slow bleeding- Digital readout display constant update of collection status- Audio and visual alert at end of collection- Automatic flow cut-off at end of collection- Thorough, continuous mixing of blood and anticoagulant eliminates clotting- Dimension: (L x W x H) 46 cm x 15 cm x 43 cm- Voltage: 110V-220V 60 Hz	1

PRECISION CALIBRATION WEIGHT FOR SHAKER

ITEM NO: 41

BLOOD BANK

Specification For: PRECISION CALIBRATION WEIGHT FOR SHAKER	QTY
<u>PRECISION CALIBRATION WEIGHT FOR SHAKER</u>	1

ID CENTRIFUGE 6 S**ITEM NO: 42****BLOOD BANK**

Specification For: ID CENTRIFUGE 6 S	QTY
<p data-bbox="560 589 868 622" style="text-align: center;"><u>ID CENTRIFUGE 6 S.</u></p> <ul data-bbox="199 651 911 860" style="list-style-type: none">- Centrifuge head for 6 ID cards- Automatic weight balancing control of the centrifuge head- Monitored by microprocessor- Centrifuge works also with 12 V battery- 1175 rpm +/- 5 rpm,- Dimension: (W x D x H) 27 cm x 30.5 cm x 17 cm- Voltage: 110V-220V 60 Hz	1

ID INCUBATOR 37 S I.**ITEM NO: 43****BLOOD BANK**

Specification For: ID INCUBATOR 37 S I	QTY
<p data-bbox="550 584 879 622" style="text-align: center;"><u>ID INCUBATOR 37 S I.</u></p> <ul data-bbox="199 651 965 891" style="list-style-type: none">- For the incubation of ID-cards at 37oC- Capacity: 1 ID-centrifuge head- Monitored by microprocessor- Standard programme: duration 15 minutes, temperature 37oC- Incubation time programmable- Time and temperature are display- Dimension: (W x D x H) 30.5 cm x 33.5 cm x 18.5 cm- Voltage: 110V-220V 60 Hz	1

ID WORKING TABLE.**ITEM NO: 44****BLOOD BANK**

Specification For: ID WORKING TABLE	QTY
<p data-bbox="550 589 879 622" style="text-align: center;"><u>ID WORKING TABLE.</u></p> <ul data-bbox="199 651 807 770" style="list-style-type: none">- Plexiglas's holder for sample tubes and ID cards- For 3x12 ID cards,- With guiding lines for easy identification- Size: 40 cm large,. 32 cm deep, 6 cm high	1

ID PIPETORFP 4**ITEM NO: 45****BLOOD BANK**

Specification For: ID PIPETORFP 4	QTY
<p data-bbox="592 589 839 622" style="text-align: center;"><u>ID PIPETORFP 4</u></p> <ul data-bbox="199 651 1002 770" style="list-style-type: none">- For serial pipetting of 12.5 uL, 25 uL and 50 uL- Aspirating volumes providing: 24x12.5 uL or 12x25 uL or 6x50 uL- Precision: 12.5 uL; +/- 2.0%, 25 uL; +/-1.5%, 50 uL; +/- 1.5% uL- With tip ejector	1

ID DISPENSER II WITH HOLDER**ITEM NO: 46****BLOOD BANK**

Specification For: ID DISPENSER II WITH HOLDER	QTY
<p data-bbox="469 589 960 622" style="text-align: center;"><u>ID DISPENSER II WITH HOLDER</u></p> <ul data-bbox="199 651 1018 768" style="list-style-type: none">- For serial dispensing of 0.5 ml or 1 ml ID-Diluent 1 and ID-diluent 2- Volume manually adjustable- For 100 ml and 500 ml bottles- With holder	1

ID READER M WITH BARCODE READER**ITEM NO: 47****BLOOD BANK**

Specification For: ID READER M WITH BARCODE READER	QTY
<p data-bbox="405 589 1023 622" style="text-align: center;"><u>ID READER M WITH BARCODE READER.</u></p> <ul data-bbox="199 651 1257 770" style="list-style-type: none">- Compact, semi automatic and PC controlled reads and interprets each card in less than a seconds.- Dimension: 25 cm x 39 cm x 15 cm- Voltage: 110V-220V 60 Hz	1

APHERESIS SYSTEM FOR BLOOD**ITEM NO: 48****BLOOD BANK**

Specification For: APHERESIS SYSTEM FOR BLOOD	QTY
<p style="text-align: center;"><u>APHERESIS SYSTEM FOR BLOOD</u></p> <ul style="list-style-type: none"> - Fully automatic, one venous access - Large easy to read display screen - Color coded tubing to avoid confusion - Haemocalutator-customizes collection of parameters - Parameter: PLATELETS, Red Cells, Plasma and Steam cell Leukodeplated platelets - Machine closed: 36.5 x 44 x 56.5 cm(D x H x W) - Machine operation: 56.5 x 68.5 x 56.5cm - Operating Frequency: 47-63 Hz - Centrifuge speed: 4800-700 rpm - Pump Speed: 0-150 ml/min adjustable - Voltage: 110V-220V 60 Hz 	1

PLATELET INCUBATOR**ITEM NO: 49****BLOOD BANK**

Specification For: PLATELET INCUBATOR	QTY
<p data-bbox="531 589 898 622" style="text-align: center;"><u>PLATELET INCUBATOR</u></p> <ul data-bbox="201 683 1082 770" style="list-style-type: none">- Continuous, dependable storage and monitoring of platelet concentrates- Floor model with flat bed agitator for storing platelet bags- Voltage: 110V-220V 60 Hz	1

PLASMA THAWING SYSTEM WITH TRANSLUCENT COVER, DIGITAL THERMOMETER.

ITEM NO: 50

BLOOD BANK

Specification For: PLASMA THAWING SYSTEM WITH TRANSLUCENT COVER, DIGITAL THERMOMETER.	QTY
<p align="center"><u>PLASMA THAWING SYSTEM WITH TRANSLUCENT COVER, DIGITAL THERMOMETER.</u></p> <ul style="list-style-type: none"> - For defrosting of 8 frozen blood bags - P.I.D Microprocessor control, DTD thermal ribbon sensor, 10 Min thaw time - Chamber Volume 8.5/Gallons, Simple temperature calibration - Thermometer holder, Over temperature - Alarm system (Audible/Visual, Thaw Random & Aphaeresis FFP - Auto access for Loading & Unloading - Digital thermometer - Voltage: 110V-220V 60 Hz 	1

SPRING SCALE 500 ML**ITEM NO: 51****BLOOD BANK**

Specification For: SPRING SCALE 500 ML	QTY
<p data-bbox="539 589 890 622" style="text-align: center;"><u>SPRING SCALE 500 ML.</u></p> <ul data-bbox="199 651 1177 712" style="list-style-type: none">- Spring scale for measuring the blood volume collected in TERUFLEX Blood bag.- The zero point can be easily and accurately adjusted	1

HAND SEALER WITH ROLLER CUTTER.**ITEM NO: 52****BLOOD BANK**

Specification For: HAND SEALER WITH ROLLER CUTTER.	QTY
<p data-bbox="411 593 1021 627" style="text-align: center;"><u>HAND SEALER WITH ROLLER CUTTER.</u></p> <ul data-bbox="199 660 1276 862" style="list-style-type: none">- A multi-functional instrument for squeezing and sealing tubing with aluminum rings and cutting the tubing.- Spring at the end of crossing keeps handle open after gripping action, which provides easier of use- The handle with groove fits nurses hand well and makes it easy to grip- Slits are around one roller and they allow nurse to squeeze the tube easier, and reduce the chance of the roll off the tubing	1

PLASMA EXTECTOR.**ITEM NO: 53****BLOOD BANK**

Specification For: PLASMA EXTECTOR.	QTY
<p data-bbox="555 593 877 627" style="text-align: center;"><u>PLASMA EXTECTOR.</u></p> <ul data-bbox="199 660 1276 750" style="list-style-type: none">- The stand is used to extract blood components from a blood collection bag to a satellite bag, or from a satellite bag to a transfer bag. Accommodates bags up to 500 ml in size, and is easy to operate.	1

ITEM NO: 54

TUBE SEALER ELECTRICAL

BLOOD BANK

Specification For: TUBE SEALER ELECTRICAL	QTY
<p style="text-align: center;"><u>TUBE SEALER ELECTRICAL.</u></p> <ul style="list-style-type: none">- Oscillator frequency: 40.7 MHz- High frequency output: Maximum 15W- Sealing time: 1.5 second- Power consumption: Maximum 100VA- Dimension: 310 mm x 140 mm x 175 mm- Voltage: 110V-220V 60 Hz	1

LEUKOCYTE REMOVAL FILTER.

ITEM NO: 55

BLOOD BANK

Specification For: LEUKOCYTE REMOVAL FILTER.	QTY
<p data-bbox="464 555 963 591" style="text-align: center;"><u>LEUKOCYTE REMOVAL FILTER</u></p> <ul data-bbox="199 622 963 860" style="list-style-type: none">- Highly biocompatible micro porous polyurethane filter material- Average residual leukocyte count below 2×10^5- 90% red cell recovery- Requires no rinsing- Self-priming- Easy to handle- Bypass line with segments for test sample- Color coded clamps for easy identification	1

ITEM NO: 56

TSCD STERILE WELDER**BLOOD BANK**

Specification For: TSCD STERILE WELDER	QTY
<p data-bbox="528 555 903 591" style="text-align: center;"><u>TSCD STERILE WELDER</u></p> <ul data-bbox="199 622 1114 801" style="list-style-type: none">- The control panel is separated from the welding site- Indicator lamps and audible beeps shows the status of the welding process- Wafers: TSCD wafers- Tubing: Welds PVC tubing- Dimension: (W x H x D) 18.4 cm x 13.9 cm x 27.6 cm- Voltage: 110V-220V 60 Hz	1

**BLOOD BANK REFRIGERATOR W/ELECTRONIC TEMPERATURE CONTROL
302 LITERS 10.6 CU.FT 120 BAGS WITH CHART RECORDER.**

ITEM NO: 57

BLOOD BANK

Specification For: BLOOD BANK REFRIGERATOR W/ELECTRONIC TEMPERATURE CONTROL 302 LITERS 10.6 CU.FT 120 BAGS WITH CHART RECORDER.	QTY
<p><u>BLOOD BANK REFRIGERATOR W/ELECTRONIC TEMPERATURE CONTROL 302 LITERS 10.6 CU.FT 120 BAGS WITH CHART RECORDER.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 600mm x 680 mm x 1835 mm - Interior dimension: (W x D x H) 520 mm x 490 mm x 1150 mm - Effective capacity: 302 liters (10.6 cu.ft) - Exterior cabinet: Baked on acrylic finish galvanized steel - Interior cabinet: Baked on acrylic finish galvanized steel - Cabinet insulation: CFC-free Rigid polyurethane formed-in place - Outer door: 1 Backed-on acrylic finish galvanized steel double pane glass window - Inner door: 2 (Acrylic) - Door lock: 1 - Drawers/Shelves: 5 roll out drawers (stainless steel) - Casters: 4 - Adjustable leveling feet: 2 - Cooling performance: 4°C (Ambient temperature 35°C) - Air circulation: Forced air - Evaporator: Fin and tube - Deforst: Fully automatic - Condenser: Fine and Tube - Compressor: 175 W (1/5 HP) Hermetic type - Refrigerant: R-134a - Temperature recorder: Recording range -6°C to 20°C - Monitor and alarm system: 250 ml monitor bottlex2 set point +/- 2oC - Monitor bottle: 250 ml - Lighting: Fluorescent lamp - Voltage: 110V-220V 60 Hz 	1

**BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 482 LITERS 17.0 CU.FT
WITH CHART RECORDER.**

ITEM NO: 58

BLOOD BANK

Specification For: BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 482 LITERS 17.0 CU.FT WITH CHART RECORDER.	QTY
<p><u>BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 482 LITERS 17.0 CU.FT WITH CHART RECORDER.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 800mm x 772 mm x 1802 mm - Interior dimension: (W x D x H) 658 mm x 607 mm x 1272 mm - Effective capacity: 482 liters (17.0 cu.ft) - Cooling performance: -30°C (1/2 chamber air temp. Ambient temperature 35°C) - Cooling range -20°C to -30°C - Baskets: Top: 6 medium, Bottom: 8 small - Access ports: 30 mm diameter, rear - Cooling system: Hermetic rotary compressor - Refrigerant: R-407D - Alarm system: High/low temperature alarm (SV +/-5°C to +/- 15°C adjustable) - Voltage: 110V-220V 60 Hz 	1

**BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 274 LITERS 9.7 CU.FT
WITH CHART RECORDER.**

ITEM NO: 59

BLOOD BANK

Specification For: <u>BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 274 LITERS 9.7 CU.FT WITH CHART RECORDER.</u>	QTY
<p align="center"><u>BLOOD PLASMA FREEZER CFC-FREE UP-RIGHT 274 LITERS 9.7 CU.FT WITH CHART RECORDER.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 610mm x 733 mm x 1620 mm - Interior dimension: (W x D x H) 490 mm x 485 mm x 1290 mm - Effective capacity: 274 liters (9.7 cu.ft) - Cooling performance: -30°C - Cooling range -20°C to -30°C - Baskets: 4 large, 1 small - Access ports: 30 mm diameter, left-hand side - Cooling system: Hermetic rotary compressor - Refrigerant: R-137a - Alarm system: High/low temperature alarm (SV +/-5°C to +/- 15°C adjustable) - Voltage: 110V-220V 60 Hz 	1

PRESS-TO-MIX (VORTEX MIXER)**ITEM NO: 60****BLOOD BANK**

Specification For: PRESS-TO-MIX (VORTEX MIXER)	QTY
<p data-bbox="459 593 970 627" style="text-align: center;"><u>PRESS-TO-MIX (VORTEX MIXER)</u></p> <ul data-bbox="199 660 821 772" style="list-style-type: none">- A single tube mixing- A soft foam pad and mixing plate form for 4 tubes- A fixed speed of 3200 rpm- Voltage: 110V-220V 60 Hz	1

PRECISION BALANCE**ITEM NO: 61****BLOOD BANK**

Specification For: PRECISION BALANCE	QTY
<p data-bbox="544 593 884 629" style="text-align: center;"><u>PRECISION BALANCE</u></p> <ul data-bbox="199 658 564 719" style="list-style-type: none">- Readability: 0.1 g- Capacity: Maximum 6100 g	1

CENTRIFUGE WITH SWING OUT ROTOR, BUCKETS, TUBE RACK**ITEM NO: 62****BLOOD BANK**

Specification For: CENTRIFUGE WITH SWING OUT ROTOR, BUCKETS, TUBE RACK.	QTY
<p><u>CENTRIFUGE WITH SWING OUT ROTOR, BUCKETS, TUBE RACK.</u></p> <ul style="list-style-type: none"> - Volume: 4x250 ml - Speed: - Maximum speed/RCF: 13500 rpm/17310 xg - Drive mechanism: Brush less induction drive - Type of control: Standard-Control - Speed range: 250-13500 rpm/ 250 rpm - Running time: 1-60 min/ endurance run - Dimension: L x H x W 430 mm x 365 mm x 540 mm - Voltage: 110V-220V 60 Hz 	1

CLAY ADAMS SERO-FUGE CENTRIFUGE WITH ROTOR**ITEM NO: 63****BLOOD BANK**

Specification For: CLAY ADAMS SERO-FUGE CENTRIFUGE WITH ROTOR	QTY
<p data-bbox="296 595 1134 629" style="text-align: center;"><u>CLAY ADAMS SERO-FUGE CENTRIFUGE WITH ROTOR</u></p> <ul data-bbox="201 658 818 898" style="list-style-type: none">- Blood cell washing and separation procedures- Spin at 3400 rpm (1000g RCF)- Twelve 10x75 mm sero-tubes- Operating temperature: Ambient- Timer: 1 second to 99 min.- Dimension: (H x D x W) 30.5 cm x 33 cm x 43 cm- Weight: 12.7 kg- Voltage: 110V-220V 60 Hz	1

BLOOD DONOR CHAIR.**ITEM NO: 64****BLOOD BANK**

Specification For: BLOOD DONOR CHAIR.	QTY
<p style="text-align: center;"><u>BLOOD DONOR CHAIR.</u></p> <ul style="list-style-type: none"> - Fully upholstered upper frame is covered with durable, easy-to-clean vinyl over premium polyurethane foam - Arms are adjustable up and down and swing in and out for optimum donor comfort - Remote controlled a hand-held pendant which can be easily attached on either side at the head end of the chair allows for easy positioning from feet-high, head-low to head-high, feet-low. - Dimension: - Overall Length: 60" - Overall Width: 33" - Maximum head height: 46" - Maximum foot height: 38" - Seat Heat: 25" - Weight capacity: 350 lbs - Voltage: 110V-220V 60 Hz 	1

WATER BATH**ITEM NO: 65****BLOOD BANK**

Specification For: WATER BATH	QTY
<p data-bbox="608 595 823 629" style="text-align: center;"><u>WATER BATH</u></p> <ul data-bbox="201 658 1278 925" style="list-style-type: none">- Digital multifunctional microprocessor-PID control up to +95°C- Stainless steel container- Capacity: 22 liters- Length: 350 mm, Width: 290 mm, Height: 220 mm- Stainless steel casing: Length: 578 mm, Width 436 mm, Height (flat cover): 296 mm, Height (gable cover): 405 mm- Temperature deviation:- Water baths variation/distribution: +/- 0.1/+/- 0.25- Voltage: 110V-220V 60 Hz	1

PEPPETES CRYSTAL DIFFERENT SIZES

ITEM NO: 66

BLOOD BANK

Specification For: PEPPETES CRYSTAL DIFFERENT SIZES	QTY
<u>PEPPETES CRYSTAL DIFFERENT SIZES</u>	1

MEDICAL REFRIGERATOR 1370 LITERS 48.36 CU.FT**ITEM NO: 67****MICROBIOLOGY**

Specification For: MEDICAL REFRIGERATOR 1370 LITERS 48.36 CU.FT	QTY
<p style="text-align: center;"><u>MEDICAL REFRIGERATOR 1370 LITERS 48.36 CU.FT</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 1440 mm x 830 mm x 1950 mm - Interior dimension: (W x D x H) 1320 mm x 710 mm x 1500 mm - Effective capacity: 1370 liters (48.36 cu.ft) - Exterior: Acrylic finish baked on zinc galvanized steel - Interior: Acrylic finish baked on zinc galvanized steel - Insulation: CFC-free Rigid polyurethane formed-in place - Door: 2 x double pane glass doors, self closing - Drawers/Shelves: 8 x polyethylene-coated wire shelves - Access ports: 3 x 30 mm (2 in sides, 1 in cabinet top) - Locks: 2 x cylinder type - Castors: 4 - Cooling method: Forced air circulation with double fan - Compressor: 300W hermetic rotary - Evaporator: Fin tube type - Condenser: Fin tube type - Refrigerant: R-134a (HFC) - Defrost method: Forced type fully automatic - Defrost heater: 257 W - Temperature control: microprocessor controlled on/off type - Temperature range: 2°C to 14°C - Temperature display: 1565kL/h - Safety features: High temp. protection circuit, low temp. Protection circuit, temperature lock, self diagnostics, memory backup - High temperature alarm: 5°C or more above set level, flashing LED & buzzer after 15 minute delay - Low temperature alarm: interior temperature drops to 0°C - Door ajar alarm: Flashing lamp, buzzer after 2-minute delay - Interior lamp: 40W x 1, fluorescent lamp - Voltage: 110V-220V 60 Hz 	1

MEDICAL REFRIGERATOR 489 LITERS 17.2 CU.FT**ITEM NO: 68****MICROBIOLOGY**

Specification For: MEDICAL REFRIGERATOR 489 LITERS 17.2 CU.FT	QTY
<p style="text-align: center;"><u>MEDICAL REFRIGERATOR 489 LITERS 17.2 CU.FT.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 900 mm x 600 mm x 1790 mm - Interior dimension: (W x D x H) 800 mm x 465 mm x 1300 mm - Effective capacity: 489 liters (17.2 cu.ft) - Exterior cabinet: Acrylic finish baked galvanized steel - Interior cabinet: Stainless steel - Cabinet insulation: CFC-free Rigid polyurethane formed-in place - Outer door: 2 sliding doors, double layer glass window - Drawers/Shelves: 5 x polyethylene-coated wire shelves - Looks: 1 - Cooling method: Forced air circulation - Compressor: 225W hermetically sealed - Evaporator: Fin and tube - Condenser: Wire tube, tube on sheet - Refrigerant: R-134a - Fan motor for cooling: For cooling: output 3W - Defrosting: Forced type fully automatic - Internal heater: 148 W - Voltage: 110V-220V 60 Hz 	1

MEDICAL REFRIGERATOR 1037 LITERS 36.6 CU.FT**ITEM NO: 69****MICROBIOLOGY**

Specification For: MEDICAL REFRIGERATOR 1037 LITERS 36.6 CU.FT	QTY
<p style="text-align: center;"><u>MEDICAL REFRIGERATOR 1037 LITERS 36.6 CU.FT.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 1800 mm x 600 mm x 1790 mm - Interior dimension: (W x D x H) 1700 mm x 465 mm x 1300 mm - Effective capacity: 1037 liters (36.6 cu.ft) - Exterior cabinet: Acrylic finish baked galvanized steel - Interior cabinet: Stainless steel - Cabinet insulation: CFC-free Rigid polyurethane formed-in place - Outer door: 2 sliding doors, double layer glass window - Drawers/Shelves: 10 x polyethylene-coated wire shelves - Looks: 1 - Cooling method: Forced air circulation - Compressor: 300W hermetically sealed - Evaporator: Fin and tube - Condenser: Fin and tube - Refrigerant: R-134a - Fan motor for cooling: For cooling: output 3W x 2, For condenser output: 4W - Defrosting: Forced type fully automatic - Internal heater: 175 W - Voltage: 110V-220V 60 Hz 	1

BIO CLEAN BENCH STANDARD TYPE**ITEM NO: 70****MICROBIOLOGY**

Specification For: BIO CLEAN BENCH STANDARD TYPE	QTY
<p style="text-align: center;"><u>BIO CLEAN BENCH STANDARD TYPE</u></p> <ul style="list-style-type: none"> - External dimension: (W x D x H) 1690 mm x 780 mm x 1950 mm - Working area: (W x D x H) 1660 mmx 610 mm x 680 mm - Cabinet: Stoved acrylic finish on galvanized steel - Interior: Stainless steel - Front shutter: Aluminum framed glass and balanced stop mechanism - HEPA: - For working area: 610 x760 x 150mm x 2; low pressure drop, rated air flow: 21m³/min x 2; pressure loss: 122.5Pa - For exhaust: 610x255x150 mm x 2; rated air flow: 7m³/min x 2; pressure loss: 245Pa - Prefilter: mounted under work bench - Air velocity: More than 0.4m/s (initial value) - Particle collecting efficiency: More than 99.99% - Lighting: - Fluorescent light: 2x40W - Light level: More than 1100 lux - UV light: 2x15W - Blower: - Fan: 4 multiblade fans: dia. 180x230 - Fan motor: 4-pole output 100W induction motor with both side shafts x 2 - Air flow: 22m³/min - Indication: - Filter life indication: 3 green LEDs indicate HEPA filter life - Filter exhaustion alarm: Red LED indicator (fan damage is indicated by flashing and buzzer) - Electrical protection: Thermal bimetallic thermostat for fan motor - Height adjustment mechanism: Four adjustable feet - Power consumption: 437x472W (including fluorescent lamp) - Voltage: 110V-220V 60 Hz 	1

**BIOLOGICAL SAFETY CABINET TYPE A/B3 PURIF-4 FEET BASE STAND,
UV & SERVICE FIXTURES**

ITEM NO: 71

MICROBIOLOGY

Specification For: BIOLOGICAL SAFETY CABINET TYPE A/B3 PURIF-4 FEET BASE STAND, UV & SERVICE FIXTURES	QTY
<p><u>BIOLOGICAL SAFETY CABINET TYPE A/B3 PURIF-4 FEET BASE STAND, UV & SERVICE FIXTURES</u></p> <ul style="list-style-type: none"> - Nominal inflow velocity of 105 feet per minute - Nominal down flow velocity of 55 fpm - Approximately 70% air recirculation - Intrinsically-safe negative pressure design - Two 99.99% efficient HEPA filters - Unitized 16 gauge stainless steel substructure - Crevice-free, type 304 stainless steel interior and removable, seamless, dished work surface - Epoxy coated exterior - 10° angled, sliding, fully-closing, 1/4:" tempered safety glass sash with anti-racking mechanism and tactile safety indicator - Air wave entry system - Stainless steel air foil with Opti-speed - Contain-air Negative pressure channel - Eye-level ADA compliant Minihelic II pressure gauge - Sure-start voltage-compensating speed control with 25 amp capacity - Class 100 working conditions - Voltage: 110V-220V 60 Hz 	1

**MICROPROCESSOR CONTROLLED AIR JACKETED CO2 INCUBATOR 164
LITERS 5.8 CU.FT**

ITEM NO: 72

MICROBIOLOGY

Specification For: MICROPROCESSOR CONTROLLED AIR JACKETED CO2 INCUBATOR 164 LITERS 5.8 CU.FT	QTY
<p><u>MICROPROCESSOR CONTROLLED AIR JACKETED CO2 INCUBATOR 164 LITERS 5.8 CU.FT</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 620 mm x 685 mm x 900 mm - Interior dimension: (W x D x H) 490 mm x 505 mm x 665 mm - Effective capacity: 164 liters (5.8 cu.ft) - Shelves: Standard 5 Maximum 17 - Exterior finish: Baked-on acrylic finish on galvanized steel - Interior finish: Copper alloy stainless full round corner - Door: Baked on acrylic finish on galvanized steel with door heater - Inner door: Tempered glass - Insulation: Foamed-in place polyurethane non (CFC) - Heating method: Direct heat & Air (DHA) jacket system - Humidifying system: Natural vaporization with water in humidity pan (stainless) - Temperature control: microprocessor PID control - CO2 control: Microprocessor control (Sensor: Chopper-less infrared ray) - Air Circulation system: Gentle air circulation - Temperature range: Ambient temperature +5°C -50°C - Temperature uniformity: +/-2°C (Setting temperature: 37°C, Ambient temperature: 20°C) - CO2 range: 0-20% - CO2 variation: +/-0.15% - CO2 secondary pressure: 0.03MpaG - Chamber humidity: 95% +/- 5% R.H - Alarm system: Audible and visual alarm - Voltage: 110V-220V 60 Hz 	1

HEATED INCUBATOR 153 LITERS 5.4 CU.FT**ITEM NO: 73****MICROBIOLOGY**

Specification For: HEATED INCUBATOR 153 LITERS 5.4 CU.FT	QTY
<p style="text-align: center;"><u>HEATED INCUBATOR 153 LITERS 5.4 CU.FT</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 730 mm x 645 mm x 870 mm - Interior dimension: (W x D x H) 600 mm x 510 mm x 500 mm - Effective capacity: 153 liters (5.4 cu.ft) - Exterior finish: Baked-on acrylic finish on galvanized steel - Interior finish: stainless steel - Door: Baked on acrylic finish on galvanized steel - Shelves: 2 stainless steel, stainless wire - Insulation: Glass wool - Circulation system: Natural convection - Heater: Sheathed heater 200W - Temperature setting indication: Digital setting with key lock, digital display - Temperature control: Microprocessor PID system - Temperature sensor: Thermistor - Automatic setting temperature alarm: when temperature deviates approx, +/- 2.5 deg, visual and audible alarm - Temperature range: Ambient temperature +5°C +80°C - Timer: automatic timer with delay function 00:00-99: 59 - Voltage: 110V-220V 60 Hz 	1

LBORATORY FULLY AUTOMATIC AUTOCLAVE**ITEM NO: 74****MICROBIOLOGY**

Specification For: LBORATORY FULLY AUTOMATIC AUTOCLAVE	QTY
<p style="text-align: center;"><u>LBORATORY FULLY AUTOMATIC AUTOCLAVE</u></p> <ul style="list-style-type: none"> - External dimension: (W x H x D) 600mm x 754 mm x 560 mm - Power consumption: 2kW - Chamber dimension: (Diameter x depth) 370 mm x 410 mm - Effective capacity: 50 liters - Chamber material: SUS304 stainless steel - Maximum pressure: 0.235Mpa - Sterilization temperature: 105°C to 135°C - Culture medium breakdown temperature: 60°C to 100°C - Keep warm temperature: 45°C to 60°C - Sterilization timer: 1 to 250 minutes instrument sterilization course up to 72 hours - Breakdown timer: 0 to 250 minutes, 72 hours possible - Keep warm timer: 72 hours delayed, auto off - Program timer: 1 to 99 hours - Exhaust control: Exhaust valve open temperature setting - Safety devices: Pressure safety valve, over temperature limiter, anti-scorch limiter, door interlock, overpressure limiter, current fuse - Pressure vessel type: Small-scale pressure vessel - Voltage: 110V-220V 60 Hz 	1

WATER PRO PS/HPLC POLISHING STATION WITH POLISH KIT**ITEM NO: 75****MICROBIOLOGY**

Specification For: WATER PRO PS/HPLC POLISHING STATION WITH POLISH KIT.	QTY
<p><u>WATER PRO PS/HPLC POLISHING STATION WITH POLISH KIT.</u></p> <ul style="list-style-type: none"> - Bowls: 51.4 cm. Four bowls constructed of unpigmented virgin natural polypropylene for on carbon, two deionization cartridges and one organic adsorption cartridge. - A spanner wrench is provided for filter - Cabinet: (W x D x H) 79.1 cm x 19.6 cm x 21.9 cm constructed of epoxy coated steel with Type 304 stainless steel front panel - ¼ hp motor/rotary vane recirculation pump and water pressure regulator. - Continuous/Intermittent Recirculation: In the ON setting, the system continuously recirculates through the polishing loop. In OFF setting, the system automatically starts and circulates water through the polishing loop for approximately 4 minutes every 2 hours to minimize rinse up time and bacteria growth. - Dispensing center: Constructed of pressure-formed thermoplastic. - Plumbing connections: Feed water line should be 3/8" OD rigid plastic tubing or 3/8" ID flexible tubing. Drain port connection to 3/8" OD line is provided. - TOC Dump Valve: Operates during intermitten recirculation to maintain a low TOC level< 5ppb. - Ultraviolet Reactor: Lamp with dual wavelengths of 185 and 254 eliminates trace organics and bacterial - Voltage: 110V-220V 60 Hz 	1

HEATED OVEN 3.4 CU.FT**ITEM NO: 76****MICROBIOLOGY**

Specification For: HEATED OVEN 3.4 CU.FT	QTY
<p style="text-align: center;"><u>HEATED OVEN 3.4 CU.FT.</u></p> <ul style="list-style-type: none"> - Exterior dimension: (W x D x H) 580 mm x 595 mm x 820 mm - Interior dimension: (W x D x H) 450 mm x 475 mm x 450 mm - Effective capacity: 97 liters (3.4 cu.ft) - Exterior finish: Baked-on acrylic finish on galvanized steel - Interior finish: stainless steel plate - Insulation: Glass wool - See through window: Reinforced triple-glass window (t= 5 mm) - Shelves: 2 stainless steel plate, stainless wire - Air exhaust vent: Two on top plate (32 mm inside dia.) - Heating system: Natural convection system - Temperature control system: Microprocessor PID control - Sensor: Thermo couple - Temperature setting: Digital setting (adjustable range: +/- 1°C) - Timer: auto start, Auto stop 00:00-99: 59 - Temperature/Timer display: Digital LED display - Heater (Sheathed heater): 1.1kW - Temperature range: 40°C-250°C - Temperature controllability: +/- 1 deg. - Temperature uniformity: +/- 10°C (at 200°C) - Voltage: 110V-220V 60 Hz 	1

ANALYTICAL BALANCE**ITEM NO: 77****MICROBIOLOGY**

Specification For: <u>ANALYTICAL BALANCE</u>	QTY
<u>ANALYTICAL BALANCE</u> <ul style="list-style-type: none">- Readability: 0.1mg- Capacity: Maximum 151g	1

BACTI-CINERATOR III**ITEM NO: 78****MICROBIOLOGY**

Specification For: <u>BACTI-CINERATOR III</u>	QTY
<p data-bbox="539 593 893 627" style="text-align: center;"><u>BACTI-CINERATOR III.</u></p> <ul data-bbox="199 660 1228 750" style="list-style-type: none">- Electric, based on infrared rays- base manufactured from stove metal-ceramic funnel tube protected by a double cage guard- Voltage: 110V-220V 60 Hz	1

BLOOD EXTRACTION CHAIR.**ITEM NO: 79**

General

Specification For: BLOOD EXTRACTION CHAIR	QTY
<p data-bbox="488 600 943 633" style="text-align: center;"><u>BLOOD EXTRACTION CHAIR.</u></p> <ul data-bbox="201 667 890 752" style="list-style-type: none">- Chrome steel and synthetic lather cushioned upholstery- Removable and adjustable arm rest- Dimension: 500mm x 400 mm x 850 mm	1

WATER BATH**ITEM NO: 80**

General

Specification For: WATER BATH	QTY
<p style="text-align: center;"><u>WATER BATH</u></p> <ul style="list-style-type: none">- Capacity: 13 liters- Temperature:- Range: Amb.to 120°C- Accuracy: +/- 2.0°C at 80°C- Uniformity: +/- 1.0°C at 80°C- Controller: Mechanical type- Heater: Incoloy sheath, 1.0kW- Dimension:- Bath (W x D x H) 300 mm x 300 mm x 150 mm- Overall (W x D x H) 483 mm x 364 mm x 233 mm- Top open (W x D) 300 mm x 300 mm- Voltage: 110V-220V 60 Hz	1

SPECTROPHOTOMETER**ITEM NO: 81**

General

Specification For: SPECTROPHOTOMETER	QTY
<p style="text-align: center;"><u>SPECTROPHOTOMETER</u></p> <ul style="list-style-type: none"> - Wavelength Range" 330 to 1000 nm - Spectral Bandwidth: 6 nm - Data Processing: Microprocessor - Wavelength accuracy: +/-2 nm - Wavelength Repeatability: +/- 1 nm - Optical System: Grating 1200 Lines/mm - Stray light: $\leq 0.5\%$ T at 340 nm and 400 nm - Display: 3 ½ digit LED - Zero & Blank set: Automatic - Drift: ≤ 0.003 A/hour after warming up - Detector: Silicon photodiode - Light Source: Tungsten halogen lamp, 6V 10W - Sample volume: 0.4 ml - Sample container: round and square cuvette - Data output: Analog output, RS-232C interface, - Dimension: (W x H x D) 330 mm x 130 mm x 270 mm - Voltage: 110V-220V 60 Hz 	1

BLOOD SHAKER**ITEM NO: 82**

General

Specification For: BLOOD SHAKER	QTY
<p data-bbox="587 600 842 633" style="text-align: center;"><u>BLOOD SHAKER</u></p> <ul data-bbox="199 667 869 963" style="list-style-type: none">- Weighing range: 0-990 ml- Automatic tare to zero for the bag weight- Adjustable low and high flow alarms- Adjustable donation time out up to 20 minutes- Adjustable default volume- Automatic clamp of tubing at the end of the donation- Weighing accuracy: +/- 2%- Power consumption: 30 VA- Dimension: (W x H x D) 300 mm x 230 mm x 250 mm- Voltage: 110V-220V 60 Hz	1