№	DESCRİPTİON
1	Technical Specifications for Stereo microscope
2	Technical Specification for Invert Microscope with Camera Attachment with computer link interphase

3	Technical Specifications for refrigerators
4	Technical Specifications for freezer -20 oC
5	Technical Specification for Laboratory Centrifuge

6	Technical Specifications for Ultra purity water generator
7	Technical Specification for Refrigerated Centrifuge
8	Technical Specifications for Immunofluorescence microscope

9	Technical Specifications for freezer -20 oC
10	Technical Specifications for ultra low freezer -86 oC

11	Technical Specification for HPLC (High-performance liquid chromatography) for Aflatoxin Analysis

12	Technical Specifications for Inductively Coupled Plasma Mass Spectrometer for element analysis
13	Biological Safety Cabinet Class II Type A2

14	Real-Time PCR Detection System
15	Technical Specifications for COMMERCIAL GLASS DOOR REFRIGERATOR

16	Mobile Incinerator
17	Laboratory Autoclave
18	Laboratory Microwave Digestion System
19	Technical Specifications for refrigerators

SPECİFİCATİON
1) Stereo microscope with magnification X125 or higher 2) Resolution 600 LP/mm or higher 3) Aperture 0.2 or higher 4) Field of view more 60 mm 5) Zoom ratio of 10:1 or higher 6) Zoom range approximately 0.6 7) Objectives a) X 0.5 b) X 0.75 c) X 1.0 d) X 1.25 8) Coaxial fluorescence illuminator 9) LED base for transmitted light 10) Camera (colour) compatible with the microscopic system with facilities to record the pictures and direct display of images in a PC monitor 11) Power supply: 220-240 V, 50/60 Hz, 2-pin grounded plug type F 12) Operation and maintenance instruction manuals 13) Brand new product. 14) Software program Additional parts: Microscope cover 1 NOS
a) A complete trinocular research microscope with compatible digital camera and attachments meeting the following specifications b) Optical system of the type UIS2 or CFI or IC2S type Plan Achromat or equivalent c) Objectives : 4X with NA 0.1 or higher 10X with NA 0.25 or higher 40X with NA 0.65 or higher 100X with NA 1.25 or higher (oil immersion) d) Quadruple nosepiece tilted . e) Trinocular observation tube with inclination of 30 degree . f) Interpupillary distance adjustment range of 50-70 mm g) Light of minimum 30 W halogen lamp with adjustable intensity. h) Microscope digital camera type is C-mount CCD camera head with control unit and handset i) Imaging sensor : Size is no less than 1/1.8 inch color CCD : Effective pixels is no less than 5 megapixels Progressive scanning facility j) Video recording pixels of AVI 400 x 300 or better k) Image display resolution for UXGA of 1600x1200 or better l) Storage media is USB memory, network PC m) Exposure time: AUTO: 2 to 1/20,000 sec. : MANUAL: 8 to 1/20,000 sec. n) Scale display : View scale/Hide scale Available microscope total magnification: 0.01x to 9000x o) Facility to measure functions of Distance of 2 Points, 3 Points Circle, Distance between 2 Circle Centers, 3 Points Angle, 4 Points Angle, Perpendiculars, Polygon Area, Boundary Length, Distance of Parallel Lines, XY Distance, Count, Poly Line, and Cross Line p) Computer 2 Duo Core processor, 3.2GHz or lasted version with lasted Window software q) A minimum of 4.0GB RAM or better r) A minimum of 320GB Hard disk or better s) Micro thin LED or LCD monitor at least 23 inches t) Color printer and UPS u) Power supply: 220-240 V, AC, 50/60 Hz v) Brand new product. w) Installation, user and maintenance instructions x) Software program Additional parts: a) GB SD memory stick of 8 or more 2 Nos

1) Refrigerator, operating at ambient temperatures up to 32 oC
2) Digital temperature display
3) Operational temperature range +2 to +8 oC
4) Resistant to chemical vapours
5) Capacity 300- 400 Litre
6) 4 or more shelves of corrosion resistant material
7) Facility to use a thermometer to read internal temperatures.
8) Frost free
9) Cooling system of environmentally acceptable refrigerant (indicate the refrigerant)
10) Power supply: 220-240 V, 50-60 Hz, 2-pin grounded plug type F
11) Brand new product.
12) Operator and maintenance instruction manuals
13) Factory certification on operational quality of equipment
Additional Parts; none

Volume: 700 litres
Rated at 43ºC ambient
Fridge temperature range: -2ºC to +8ºC
Freezer temperature range: -10ºC to -35ºC
Electronic HACCP controller
Fan forced refrigeration with auto defrost
Full stainless steel construction
Internal radius corners
Internal LED light
Reversible & Self closing door
Removable magnetic door gasket
Door lock with key
Removable racking for ease of cleaning
4x Adjustable shelves 530x650mm
Supplied on castors (2x with brakes)
Upright model
Compressor of no less than 0.5 HP
Operation system with no frost formation
Power supply: 220-240 V, AC, 50/60 Hz 2-pin grounded plug type F
Brand new product.
Operator and maintenance instructions
Factory certification on operational quality of equipment
EC or similar declaration of conformity
Additional parts: none

1) Bench top centrifuge operational up to 14000 rpm, and digitally controlled timer
2) Rotor to hold 0.2 to 2.2 microtubes (Adapter for PCR tube 0.2 ml, max 6 mm, for all 1,5/ 2 ml rotors)
3) Microprocessor control with operational speed digitally displayed
4) Power: 220-240 V, 50-60 Hz, 2-pin grounded plug type F
5) Brand new product.
6) Operator and maintenance manuals
7) Factory calibration certificate
Additional Parts: Rotor to hold 0.2 to 2.2 microtubes
Microtubes 2 ml capacity x 25

The complete unit should be capable of producing water at Resistivity: 18.2 M•cm @ 25 °C and meeting the quality requirements given below
a) TOC (with 185/254 nm UV lamp): <5 ppb
b) Particulates (size > 0.22 µm): <1 particulate/ml
c) Bacteria: <0.1 cfu/ml
d) Endotoxin (pyrogens): <0.001 EU/ml
e) Rnases: <0.01 ng/ml
f) Dnases: <4 pg/ul
The system should include:
a) Cartridge system for initial chemical purification of water usable for more than 6 months
b) UV system for decontaminating water
c) Ultra filter system to remove bacteria and spores
d) System should be capable of producing 80 L ultra pure water per day from tap water
Power supply: 220-240 V, 50-60 Hz
Brand new product.
Operator and maintenance instruction manuals
Additional Parts
water chemical purification packs - 2
water microbiological purification packs - 2
UV bulb / tube – 1

1) Bench top centrifuge operational up to 13700 rpm, with digitally controlled timer
2) Microprocessor control with operational speed digitally displayed
3) Operates with refrigeration off too
4) Operates at temperatures of 4 oC to 50 oC
5) Time settings 1 to 90 min
Rotor to hold: 6x50 ml tubes Max speed up to 13500 rpm
Rotor to hold: 40x50 ml tubes and 96x15 ml tubes Max speed up to 4250 rpm. Adapter for 50 ml conical tubes and for 15 ml tubes

6) Centrifuge tubes capacity 15 ml 50 ml Teflon 40 units of each type
7) Power: 220-240 V, 50-60 Hz, 2-pin grounded plug type F
8) Brand new product.
9) Operator and maintenance instruction manuals
10) Factory calibration certificate

1) Upright microscope
2) DIA at leat 100 W halogen lighting
3) Micro-macro-block window with refocusing mechanism
4) Ergonomic height – adjustable trinotubus
5) Adapter for upgrading the camera
6) Eyepieces 22 mm (F.O.V.)
7) Lenses for fluorescence: 10x- N.A at least 00:29,
8) 20x N.A. at least 0:49, 40x N.A. at least 00:89, 60x N.A. at least 0.94
9) Revolver for at least 6 lenses
10) Mechanichal table right management.settingg torsion displacement
11) Holder preparation 2 preparation
12) The option of installing fluorescent filters. Built 3 filters green, blue and DAPI
13) Camera (colour) compatible with the microscopic system with facilities to record the pictures and direct display of images in a PC monitor
14) EPI Light Source 130 W Hg least 2000 ur lifetime
15) Modern computer with graphical card and all 2T disk
16) Power supply: 220-240 V, 50/60 Hz, 2-pin grounded plug type F
17) Operation and maintenance instruction manuals
18) Brand new product.
19) Software program
Additional parts: Microscope cover 1 NOS

1) Volume: 151 litres
2) Door lock with key
3) External dimensions 595x 610 x 845 mm
4) Rated at 43ºC ambient
5) Freezer temperature range: -10ºC to -35ºC
6) Electronic HACCP controller
7) Fan forced refrigeration with auto defrost
8) Full stainless steel construction
9) Removable magnetic door gasket
10) Reversible & Self closing door
11) High and low temperature alarms
12) Internal LED light
13) Internal radius corners
14) Removable racking for ease of cleaning
15) 3 shelves
16) Supplied on castors (2x with brakes)
17) Upright model
18) Compressor of no less than 0.5 HP
19) Operation system with no frost formation
20) Power supply: 220-240 V, AC, 50/60 Hz 2-pin grounded plug type F
21) Brand new product.
22) Operator and maintenance instructions
23) Factory certification on operational quality of equipment
24) EC or similar declaration of conformity
Additional parts: none

1) Volume: 500-600 litres
2) Door lock with key
3) Polyurethane insulation
4) Rated at 43ºC ambient
5) Freezer temperature: maintain ultra low temperature up to -86ºC
6) Electronic HACCP controller
7) Auto defrost
8) Full stainless steel construction
9) Removable magnetic door gasket
10) Reversible & Self closing door
11) High and low temperature alarms
12) Internal LED light
13) Internal radius corners
14) Removable racking for ease of cleaning
15) tall box, boxes per rack
tall box, boxes per rack
tall box, boxes per rack
16) Supplied on castors (2x with brakes)
17) Upright model
18) Dual compressor
19) Operation system with no frost formation
20) Power supply: 220-240 V, AC, 50/60 Hz 2-pin grounded plug type F
21) Brand new product.
22) Operator and maintenance instructions
23) Factory certification on operational quality of equipment
24) EC or similar declaration of conformity
25) LN2 back-up system

Components in the main unit
a) Quaternary gradient HPLC system with facility to perform standard HPLC & fast HPLC. Both standard and fast mode to be operated with four or more solvent gradients.

b) Factory plumbed integrated system (pumps, solvent delivery modules, auto injectors, UV visible photodiode array detectors)

Pump system:
a) Low pressure gradient pump with reciprocating dual piston design.
b) In-built degasser with 4 channel or better.
Maximum pressure : 5700psi or better
Flow Rate: 0.001 ml/min to 9.999 ml /min
Composition range: 1 to 100%
Composition Accuracy: + 1% or better
Composition precision: <0.2RSD or better
Colum oven compartment:
a) Temperature range: ambient +10 oC to 65 oC
b) Temperature accuracy: ± 1oC or better
c) Temperature reproducibility: ± 0.15 oC or better
d) Warm up time: less than 15 min
UV-Vis Detector:
a) Wavelength range; 190 nm – 900 nm
b) Wavelength accuracy;; +0 - 1nm
c) Light source: Deuterium and halogen
d) Noise Level +or- 1 x 10-6 AU
e) Drift less than 1 mAUh
Fluorescence Detector:
a) Wavelength Range(Excitation): 200 – 800 nm approx.
b) Wavelength Range(Emission): 250 –900 nm approx
c) Accuracy: Maximum + 3 nm or better
d) Sensitivity: >600 for H2O Raman line
e) Flow Cell Volume: Approx. 10 □l
Auto sampler:
In built auto sampler,
a) To handle 200 x 2ml HPLC vials or better
b) Auto sampler syringe volume 100 □L or better

a) Complete ICP-MS unit capable of using in the standard, Collision and Reaction modes consisting of the plasma ion source, sample spray chamber and cyclone chamber (electronically controlled cooling) for testing environmental and food samples
b) Detection limits of less than 1 ng/L
c) RSD, 4% under all conditions
d) RF generator of starting from 25 MHz or better
e) Auto alignment facilities for the torch
f) Facilities for efficient removal of interfering substances from unknown samples
g) High frequency quadrupole system
h) Preferably sensitivity more than 400 Mcps/mg/L or Kg (ppm)
i) Self- diagnostic tools
j) Autosampler to handle 70 or more samples
k) Mechanisms to prevent drifts due to environment temperature variations in the spray chamber
l) Indicate the systems used for the three modes.
m) Indicate the detection limits of the instrument for standard substances
n) Indicate the software used and duration for free upgrade of software
o) After sale technical support (indicate duration)
p) Power supply: 220-240 V, 50-60 Hz Plug type F
q) Brand new product.
r) Operator and maintenance instruction manuals
s) It is required to submit brochures giving detailed technical information and specifications for the offered model of the equipment along with the bidding documents
Additional Parts:
a) Software Package, LabSolutions ICPMS (English) recent version (Indicate software update terms)
b) Detection limit standards – 100 ml (For at least 5 elements)
c) Calibration standards (100 ml each) for 20 elements)
d) Quality control standards – 100 ml For 10 elements
e) Helium gas cylinder of purity 99.999% - 2 Nos

The system should circulate minimum of 65% air at work space and all air entering the system and exiting should be only through HEPA filters.
Internal Size: Width 1.5 meters or more; Depth 600 cm or more; height 650 cm or more
Usable Work Area: More than 0.70 m2
Average Airflow Velocity: Inflow- 0.53 m/s (105 fpm), Downflow- 0.35 m/s (70 fpm)
ULPA Filter Typical Efficiency: >99.999% for particle size between 0.1 to 0.3 microns per IEST-RP-CC001.3

- Door: Laminated glass more than 6 mm
- Control panel: LCD digital display panel
- Required sash level: 200 or more
- External material: SPCC / AL with epoxy powder coated
- Chamber: Stainless steel 304
- Certification: EN 12469, CE
- Noise level: ≤ 65 dBA
- Exhaust volume: 720 CMH

General Specifications:
A thermal cycler and data station for Polymerase Chain Reaction to be used mainly for animal health diagnostic analysis with ability to amplification of PCR, cloning, cycle sequencing, gene expression studies and mutagenicity meeting following technical specifications.

Technical specifications:
a) Possess analysis modules for melting curve genotyping, absolute quantification and relative quantification Melt curve analysis, Gene expression analysis by relative quantity (ΔCq) or normalized expression (ΔΔCq) with multiple reference genes and individual reaction efficiencies, Data analysis options include bar chart, clustergram, scatter plot, volcano plot, and heat map, Multiple file gene expression analysis for comparison of an unlimited number of Cq values, Allelic discrimination, End-point analysis
b) Block cycler unit to take up 384 or more wells (0.2 ml)
c) Heating rate is at least 5 oC/ second and cooling rate at least 4 seconds/oC
d) Preferably peltier-based heating and cooling system or equivalent
e) Thermal base system to provide well-to-well temperature homogeneity of + 0.5 oC within 15 sec of arrival at 90 oC
f) Lamp with 430-690 nm for excitation carrying minimum of 5 filters and emission filters in the range 500 – 700 nm (minimum of 5 filters)
g) Resolution: Detect as little as 1.5 fold changes in the target quantities in single phase reaction.

Preinstalled software configuration for
a) Amplification of PCR
b) Cloning
c) Cycle sequencing
d) quantification analysis
e) Endpoint genotyping
f) Mutagenicity
g) Indicate any other facilities offered
Other requirements
a) PC Computer if data screen is not a part of the machine . Indicate the make and version offered (It should be Windows 10 program Pentium XP pack 3 or hire)
b) Possibility of operating the machine with an external PC
c) Operator and maintenance manuals English / Russian versions
d) Self-diagnostic system consisting of Installation kits, spectral calibration kit, TaqMan RNA P-96 well Instrument verification plates (or equivalent systems)

Licensed for real-time PCR
To be used for Experiment Types:
Quantitative PCR with dye

1) Refrigerator, operating at ambient temperatures up to 32 oC
2) Digital temperature display
3) Operational temperature range +1 to +10 oC
4) Capacity 1200- 1300 Litre
5) 12 shelves of corrosion resistant material
6) Facility to use a thermometer to read internal temperatures.
7) Frost free
8) Cooling system of environmentally acceptable refrigerant (Isobutane, propane or hydrocarbon blend R-441A)
9) Power supply: 220-240 V, 50-60 Hz, 2-pin grounded plug type F
10) Brand new product.
11) Operator and maintenance instruction manuals
12) Factory certification on operational quality of equipment
13) Operating mode: Ventilated
14) Number and type of doors: 3 Glass
15) Climatic class: 4 or better
16) Type of external material: Stainless Steel
17) Type of internal material: Stainless Steel

Additional Parts; none

The unit should be mobile and consists of:
a) Loading chamber of capacity more than 0.7 m3 or more
b) Afterburning chamber of combustion products;
c) Loading hatch;
d) grate;
e) Burners (one or two);
f) Exhaust pipe.
Load capacity up to 400 kg
The volume of afterburner gas (m3):2.15 or better
Burning rate (kg/h) up to 100

Loading window area of 1 sq meter or more

Volume of the afterburner (m^3) not less than 2.0
Temperature range: 850 to 1500 oC
850 oC should be reached within 3 minutes.
Type of fuel: diesel

Additional Parts; none other than that of transport system

Chamber Volume : 100-120 L (Horizontal model)
Sterilization Temperature: 50°C - 135°C under steam pressure
Internal Material: Stainless steel 304 or equivalent
Standard Accessories:3 sterilization baskets (indicate their capacity)
Minimum of 5 autoclaving programs covering temperatures of 105 oC, 110 oC and 121 oC.
LCD display and fully automatic microprocessor control
Automatically shut off with beep reminding after sterilization
Computer controlled auto recycle sterilization
Self-expandable sealing ring and dual scale numerical indication pressure gauge

Additional components: A gasket for the door, 5 Sterilization indicator tape roles.

Applications: Routine samples: Biological and environmental samples, EPA procedures, food, cosmetic and pharmaceutical samples
For microwave-assisted digestion using mixtures of hydrochloric, nitic acids and hydrogen peroxide at temperatures up to 300 oC under pressure of up to 1000 psi.
Navigator and interface with more than 200 pre-installed programs
Pressure resistant sealable 24 digestion vessels, of volume capacity up to 80 ml (including a control vessel to monitor operational temperature and pressure
Voltage stabilizer capability to operate at power variations between 190 V to 250 V with over voltage cut out
Additional Parts; none

Refrigerator, operating at ambient temperatures up to 32 oC
Digital temperature display
Operational temperature range +2 to +8 oC
Resistant to chemical vapours
Capacity 300- 400 Litre, resistant to chemical vapours
4 or more shelves of corrosion resistant material
Facility to use a thermometer to read internal temperatures.
Frost free
Cooling system of environmentally acceptable refrigerant (indicate the refrigerant)
Power supply: 220-240 V, 50-60 Hz, 2-pin grounded plug type F
Brand new product.
Operator and maintenance instruction manuals
Factory certification on operational quality of equipment

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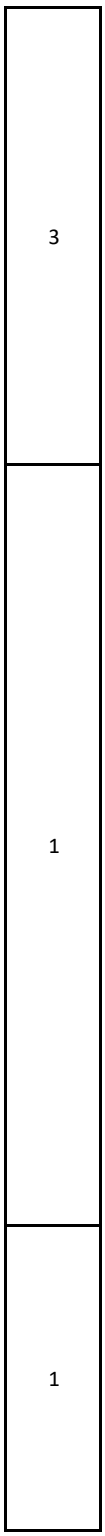
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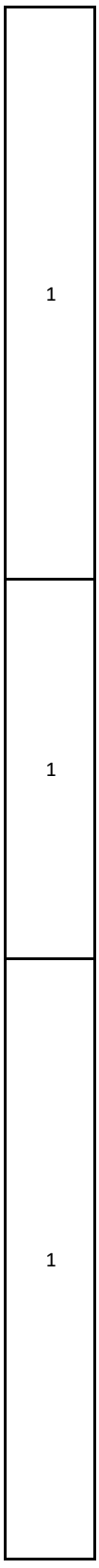
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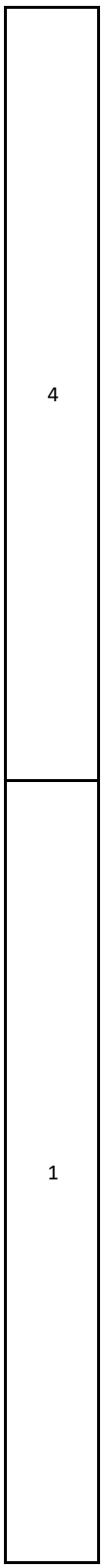
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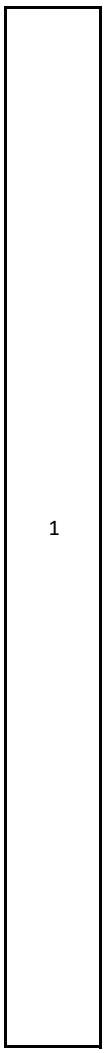
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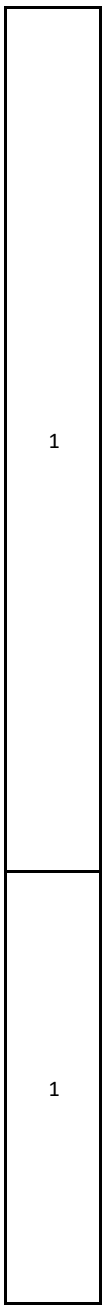
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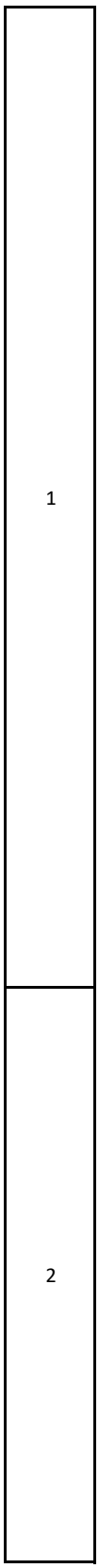
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