

16. Biotechnology Engineering Lab Equipment

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
1	<p>Refrigerator (2 Door)(1006 L)Shelves/Drawers-12 shelves -PL6500 Store general-purpose applications in Thermo Scientific™ PL6500 Lab Refrigerators. All models feature advanced alarm options and reliable temperature stability to meet the demanding requirements of the laboratory environment. Insulation High-density, fluorine free insulation Insulation High-density, fluorine free insulation Shelves 12 Temperature.. Range 1°C to 12°C, Capacity (Metric) ..1006 L,Voltage 220 V, Plug Type China,Shipping Weight (Metric) 238 kg, Depth (Metric) Interior 111 cm,Height (Metric) Exterior 223 cm, Height (Metric) Interior 162 cm, Width (Metric) ,Interior 58 cm Width (Metric) Exterior 120 cm,</p>
2	<p>Microwave Oven NNSM33HM -Panasonic 25L capacity,power 800 watts</p>

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3	<p>Analytical Balance</p> <p>FAS64/E</p> <p>Calibration External</p> <p>Diameter (Metric) Outer Pan - 90 mm</p> <p>Amperage - 0.5 A</p> <p>Readability - 0.0001 g</p> <p>Hertz - 50-60 Hz</p> <p>Min. Sample Weight - 200 mg</p> <p>Weighing Modes - Weighing, Parts Counting and Percentage Weighing</p> <p>Dimensions (D x W x H) - 317 x 201 x 303 mm</p> <p>Connection Type - RS232</p> <p>Model - FAS64/E</p> <p>Capacity (Metric) - 62 g</p> <p>Type Analytical Balance</p> <p>Electrical Requirements - 100-240 V ~ 200mA 50-60 Hz 12-18VA</p> <p>Warranty - 2 years</p> <p>Linearity - 0.0002 g</p> <p>Repeatability - 0.0001 g</p>

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4	<p>Mini Orbital Shaker</p> <p>Model OS-03U</p> <p>Model OS-03U</p> <p>Orbit Size Φ20mm</p> <p>Speed Range 30~300rpm</p> <p>Time Range 0~99h 59min</p> <p>Platform Dimensions 307x267mm / 12.09x10.51"</p> <p>Maximum Capacity 15x50ml / 12x100ml / 12x150ml or 200ml / 12x250ml / 4x500ml / 4x1000ml flasks / Small Tube Racks, Power 7W, Max. Load 2.5 kg</p> <p>Display LCD, Dimensions (WxDxH) 355x240x123mm / 13.98x9.45x4.84", Relative Humidity <80%</p> <p>Ambient: 5°C~40°C, Weight: 12.5 kg,</p> <p>Standard Accessory: OSA17. With Includes:</p>
5	<p>Tubes, 0.2 mL, flat cap (0.2 ml PCR Tubes)</p> <p>Unit Size : 1,000 tubes</p> <p>Specifications</p> <p>Cap Type: Flat, Color: Clear</p> <p>For Use With (Equipment): Thermal Cyclers</p> <p>Product Size: 1,000 tubes, Reaction Speed: Standard</p> <p>Tube Type: Individual, Volume (Metric): 0.2 mL</p>

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6	<p>MicroAmp™ Optical 8-Tube Strip with Attached Optical Caps, 0.2 mL(8-Strip PCR Tubes)</p> <p>Unit Size-125 strips</p> <p>Specifications</p> <p>No. of Wells: 96</p> <p>Shipping Condition: Room Temperature</p> <p>Closure Type: Flat</p> <p>Type: Optical 8-Tube Strip</p> <p>Color: Optical</p> <p>Volume (Metric): 0.2 mL</p> <p>For Use With (Equipment): 7000 System, 7300 System, 7500 System, GeneAmp 9700, QuantStudio™, SimpliAmp™ Thermal Cycler, Veriti Dx Thermal Cycler, Veriti Thermal Cycler, ViiA™ 7 Dx System, ViiA™ 7 System, QuantStudio™ Dx, ProFlex™ PCR</p>

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7	<p>Nunc™ 96-Well Polystyrene Round Bottom Microwell Plates (96-well Microtitre plate -Microplate Reader)</p> <p>Catalog number : 268152</p> <p>Unit Size : Case of 180</p> <p>Specification</p> <p>Bottom U</p> <p>Certifications/Compliance All microplates manufactured by Nunc meet the recommendation of American National Standards (ANSI) (ANSI/SBS 1-2004),Color Clear,Material Polystyrene,No. per Case 180,Skirt Style High Flange,No. per Pack 10</p> <p>Sterility Non-sterile,Surface Treatment Non-Treated</p> <p>Volume (Metric) Well 300 µL,Format Standard</p> <p>Lid Without lid,No. of Wells 96,Array 8 x 12</p> <p>Unit Size Case of 180</p>

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8	<p>PL6500 Lab Freezers (-20°C to -40°C) (276 L)</p> <p>PL6500</p> <p>Thermo Scientific™, USA</p> <p>Temperature Range: -20°C to -40°C</p> <p>Capacity (Metric): 276 L</p> <p>Voltage :220 V</p> <p>Shipping Weight (Metric): 123 kg</p> <p>Depth (Metric) Interior: 50 cm</p> <p>Height (Metric) Exterior: 174 cm</p> <p>Height (Metric) Interior: 120 cm</p> <p>Length (Metric) Exterior: 70 cm</p> <p>Width (Metric) Interior :46 cm</p> <p>Defrost:Manual</p> <p>Width (Metric) Exterior :70 cm</p>

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9	<p>Muffle Furnace (1500 °C, 11 L)</p> <p>-SH-FU-11MH</p> <p>- SH Scientific</p> <p>Max Temp :1500°C (2732°F)</p> <p>Temp Controller :Programmable Controller(FC-1000)</p> <p>Sensor :R type</p> <p>Heater Capacity:7600 W</p> <p>Capacity:11 L</p> <p>Dimension Internal (W×D×H) :200x270x200mm 7.87x10.63x7.87"</p> <p>Dimension External (W×D×H) : 870x625x787mm 34.25x24.61x30.98"</p> <p>Weight :102 Kg</p> <p>Heater Element :SIC</p>
10	<p>1 – 10 µL Thermo Scientific™ Finnpipette™ F2 Multichannel Pipettes</p> <p>-Finnpipette™ F2</p> <p>Thermo Scientific™</p> <p>Number of Channels: 8</p> <p>Compatible Tips: Finntip 10, Filter 10, Flex 10, Flex Filter 10</p> <p>Volume (Metric):1 to 10 µL</p> <p>Description:Finnpipette™ F2</p>

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11	<p>10 – 100 µL Thermo Scientific™ FinnpiPette™ F2 Multichannel Pipettes</p> <p>FinnpiPette™ F2</p> <p>Thermo Scientific™</p> <p>Compatible Tips: Finntip 250, Filter 100, Flex 200, Flex Filter 100, 200 Ext, Filter 100 Ext</p> <p>Volume (Metric): 10 to 100 µL</p> <p>Description: FinnpiPette™ F2</p> <p>Number of Channels: 8</p>
12	<p>30 – 300 µL Thermo Scientific™ FinnpiPette™ F2 Multichannel Pipettes</p> <p>–FinnpiPette™ F2</p> <p>Thermo Scientific™</p> <p>Compatible Tips: Finntip 300, Filter 300, Flex 300, Flex Filter 300</p> <p>Volume (Metric): 30 to 300 µL</p>

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13	<p>DreamTaq™ Hot Start Green PCR Master Mix (1000 reaction)</p> <p>Specifications</p> <p>Hot Start: 1 Built-In Hot Start</p> <p>Product Line: DreamTaq™</p> <p>Quantity: 1000 rxns</p> <p>Shipping Condition: Approved for shipment on Wet or Dry Ice</p> <p>GC-Rich PCR Performance: Low</p> <p>Overhang: 3'-A</p> <p>Polymerase: DreamTaq™ DNA Polymerase</p> <p>Reaction Format: SuperMix or Master Mix</p> <p>Reaction Speed: Standard</p> <p>Contents & Storage</p> <p>Contains:</p>

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14	<p>E -Gel™ Imager system with uv light base</p> <p>**Including Laptop</p> <p>Specifications</p> <p>For Use With (Equipment): E-Gel™ Imager</p> <p>Gel Compatibility: E-Gel™, E-Gel™ 48, E-Gel™ 96, Agarose Gels</p> <p>Label or Dye: Ethidium bromide</p> <p>System Type: E-Gel™ Imager</p> <p>Product Line: E-Gel™</p> <p>Contents & storage</p> <p>1 x E-Gel™ Imager Camera Hood. 1 x E-Gel™ Imager UV Light Base. 1 x E-Gel™ Imager software package. 1 x Gel Quant Express software enabling USB dongle. 1 x E-Gel Imager light diffuser. 1 x E-Gel Imager universal filter.</p> <p>Store at room temperature.</p>

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15	<p>Vertical Gel Electrophoresis System (Gel Electrophoresis for protein)</p> <p>– Owl™ Dual–Gel Vertical Electrophoresis Systems</p> <p>With Includes: Power Supply</p> <p>Specification</p> <p>Description P8DS Complete System</p> <p>Volume (Metric) Buffer 300mL</p> <p>Length (Metric) Gel 8 to 10cm</p> <p>Width (Metric) Gel 10cm</p> <p>Height (English) Exterior 5.5 in.</p> <p>Length (English) Exterior 6.7 in.</p> <p>Width (English) Exterior 5.1 in.</p> <p>Item Description 10 x 8–10cm; Complete system</p>
16	<p>E–Gel™ Imager White–Light Conversion Screen</p> <p>Unit Size –1 each</p> <p>Specifications</p> <p>For Use With (Equipment): E–Gel® Imager</p> <p>Shipping Condition: Room Temperature</p> <p>Product Line: E–Gel™</p> <p>Contents & storage</p> <p>1 E–Gel® Imager White–Light Conversion Screen</p> <p>Store at room temperature</p>

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17	<p>MiniAmp™ Plus Thermal Cycler (Conventional PCR)</p> <p>Specification</p> <p>Capacity: 96 wells</p> <p>For Use With (Equipment): Applied Biosystems GeneAmp plastics consumables</p> <p>Format: 96-well plate</p> <p>High Throughput Compatibility: High Throughput-Compatible</p> <p>Product Size: 1 each</p> <p>Reaction Speed: Fast or Standard</p> <p>Shipping Condition: Approved for shipment at Room Temperature or on Wet Ice</p> <p>Includes: MiniAmp™ Plus Thermal Cycler Block</p> <p>Configurations: 96-Well, 0.2 mL 3-zone VeriFlex</p> <p>Max. Ramp Rate: 3.5°C/Sec (Block), 2.7°C/Sec (Sample)</p> <p>Thermal Uniformity: <0.5°C (30 Sec After Reaching 95°C)</p>

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18	<p>PageRuler™ Plus Prestained Protein Ladder, 10 to 250 kDa (Protein marker)</p> <p>Specification</p> <p>Molecular Weight: 250, 130, 100, 70, 55, 35, 25, 15, 10 kDa</p> <p>Quantity: 2 x 250 µL</p> <p>System Type: SDS-PAGE Product Line; PageRuler™</p> <p>Detection Method: colorimetric, NIR fluorescence (700nm channel), RGB fluorescence (555nm channel) Stain Type: 3 colors: Blue, Orange, Green</p> <p>Product Type Specs: Protein Ladder</p> <p>Number of Markers: 9 Ready to Load: Yes</p> <p>Size Range: 10 to 250 kDa Contents & Storage</p> <p>Contents: two vials of 250 µL each</p> <p>Storage buffer: 62.5 mM Tris-H₃PO₄ (pH 7.5 at 25°C), 1 mM EDTA, 2% SDS, 10 mM DTT, 1 mM NaN₃ and 33% glycerol</p>