



تجهيزات لكلية الصيدلة					
ملاحظات	السعر كتابة	السعر بالدينار	الوحدة	اسم المادة المطلوبة DISCREPTION	الرقم
		1	Each	<p><b>Fluorescent Microscope</b> Specifications:</p> <ul style="list-style-type: none"> <li>EPI-fluorescence 4 LED illumination (blue, green, violet and ultra-violet)</li> <li>Quintuple nosepiece Plan PLi 4/10/S40/ S100x</li> <li>EYEPIECES: HWF 10x/22 mm eyepieces</li> <li>NOSEPIECE: Revolving and reversed ball-bearing quintuple nosepiece</li> <li>The trinocular head comes with a Ø 23.2 mm photo tube, ensuring maximum flexibility. The prisms inside the heads are designed to minimize the light absorption for perfect digital imaging. The trinocular head has a light path selector (100:0 / 0:100) and generates an erect image</li> <li>Equipped with a scratch-resistant 152/197 x 131 mm stage with integrated 75 x 36 mm X-Y rackless mechanical stage, Vernier scale, soft-close removable specimen holder. The rackless stage has no protruding parts, enables more smooth movements and is safer in use. Low-positioned X-Y control knobs prevent fatigue during long working sessions</li> </ul>	1
		1	Each	<p><b>Particle Size Analyzer</b> Specifications:</p> <ul style="list-style-type: none"> <li>Intelligent Wet and Dry Laser Particle Size Analyzer</li> <li>Analysis: Mie and Fraunhofer scattering</li> <li>Detector Arrangement Log-spaced array, test angle from 0.015 degree to 145 degree</li> </ul>	2



				<ul style="list-style-type: none"> <li>• Measuring Range: Wet: 0.01<math>\mu</math>m-2000 <math>\mu</math>m; Dry: 0.1<math>\mu</math>m-2000<math>\mu</math>m</li> <li>• Silicon Photodetectors Wet:127 pcs; Dry:100 pcs</li> <li>• Accuracy Error: Wet&lt;1% Dry&lt;1% (CRM D50)</li> <li>• Repeatability Error: Wet&lt;1% Dry&lt;1% (CRM D50)</li> <li>• Light Source High performance semiconductor red laser (<math>\lambda=639\text{nm}</math>) P &gt; 3.0MW</li> <li>• Optical Path: Converging light Fourier transform optical path</li> <li>• Effective Focal Length: 500mm</li> <li>• Laser Safety: Class 1</li> <li><u>Wet Dispersion:</u></li> <li>• Ultrasonic: Frequency: 40KHz , Power: 60W, Time: <math>\geq 1\text{S}</math></li> <li>• Stir: Revolutions Speed: 0-3000RPM (Adjustable)</li> <li>• Circulate: Rated Flow: 30L/min, Rated Power: 70W</li> <li>• Water Level Sensor (UK): Prevent water overflow and effectively protect the instrument</li> <li>• Sample Tank Volume: 1000mL</li> <li>• Micro-SaDry Dispersion: Dry-turbulence dispersion patent technology, normal shock wave shear technique</li> <li>• Feeding Speed: Adjustable (Variable speed knob)</li> <li>• Operation Mode: Full automatic / manual control, freely choose</li> <li>• Dispersion Medium: Compressed Air, pressure: 0 to 6 bar</li> <li>• Optical Bench Alignment System: Full automatic, precision is up to 0.2<math>\mu</math>m</li> <li>• Full Test Speed Per Time: Wet: &lt; 2 min, Dry : &lt;1 min, Inverval time per test result: 500ms</li> <li>• Particle size analyzer adopt laser diffraction theory (Mie and Fraunhofer diffraction), measure size is from 0.01<math>\mu</math>m to 2000<math>\mu</math>m (dry 0.1<math>\mu</math>m-2000<math>\mu</math>m), which offer reliable and</li> </ul>
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				<p>repeatable particle size analysis for a diverse range of applications.</p> <ul style="list-style-type: none"> <li>• It use dual-beam &amp; multiple spectral detection systems and side light scatter test technology to significantly improve precision and performance of test.</li> <li>• Intelligent full automatic operation system and manual operation mode, freely choose.</li> <li>• Full built-in sample dispersion system.</li> <li>• Instrument particle size analysis software.</li> </ul>	
		1	Each	<p style="text-align: center;"><b>Microtome</b></p> <p style="text-align: center;">Specifications:</p> <ul style="list-style-type: none"> <li>• Slice thickness range 0.5<math>\mu</math>m~100<math>\mu</math>m (3~5<math>\mu</math>m is the best slicing effect)</li> <li>• Specimen retraction 10~150<math>\mu</math>m (can be closed), in 1<math>\mu</math>m increments</li> <li>• <u>Section Thickness Setting Range</u> <ul style="list-style-type: none"> <li>➤ 0.5~5<math>\mu</math>m, increment 0.5<math>\mu</math>m</li> <li>➤ 5~20<math>\mu</math>m, increment 1<math>\mu</math>m</li> <li>➤ 20~60<math>\mu</math>m, increment 5<math>\mu</math>m</li> <li>➤ 60~100<math>\mu</math>m, increment 10<math>\mu</math>m</li> </ul> </li> <li>• Trimming thickness 1~600<math>\mu</math>m</li> <li>• Trimming thickness setting           <ul style="list-style-type: none"> <li>➤ 1~10<math>\mu</math>m, increment 1<math>\mu</math>m</li> <li>➤ 10~20<math>\mu</math>m, increment 2<math>\mu</math>m</li> <li>➤ 20~50<math>\mu</math>m, increment 5<math>\mu</math>m</li> <li>➤ 50~100<math>\mu</math>m, increment 10<math>\mu</math>m</li> <li>➤ 100~600<math>\mu</math>m, increment 50<math>\mu</math>m</li> </ul> </li> <li>• Specimen vertical stroke 60mm</li> <li>• Specimen horizontally stroke 25mm</li> <li>• Min specimen size with cassette clamp (HxW) 40x28mm</li> <li>• Max specimen size with cassette clamp (HxW) 55x45mm</li> </ul>	3



				<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• It supports fast switching between slicing and retouching during operation.</li> <li>• Specimen retraction function can ensure complete slicing</li> <li>• The knife holder can be shifted horizontally, eliminating the need for staff to move the blades, preventing sample scratches and avoiding danger.</li> <li>• Can use all three positions of the blade to cut waxed tissue, which prolongs the blade's life.</li> <li>• Ergonomic design of the hand wheel ensures quick and easy rotation of the hand wheel.</li> <li>• Emergency switch for immediate stopping of the machine in case of danger.</li> <li>• 8° XY-axis adjustment for precise positioning of the sample head.</li> <li>• Advanced cross-roller guide for precise cutting.</li> </ul>	
		<b>1</b>	Each	<p style="text-align: center;"><b>Laminar Flow</b> Specifications:</p> <p>Vertical Laminar Flow Cabinet Features :</p> <ul style="list-style-type: none"> <li>- Intuitive LED screen displays system work function</li> <li>- Single side type work bench with one operator working space</li> <li>- Manual front door for convenient, one hand operation</li> <li>- Adjustable air-flow velocity ensure constant positive pressure</li> <li>- Efficient sterilization is performed at 253.7 nm UV emission</li> <li>- The glass door has anti-UV radiation for personnel protection</li> <li>- Washable, polyester pre-filter to persist main filter</li> <li>- Waterproof sockets for using small devices</li> </ul>	<b>4</b>



				<p>- High-quality stainless steel gas tap and water tap          - Non-corrosive 304 stainless steel workbench          - Cold-rolled steel body construction with anti-bacteria powder coating</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Cabinet Size: 31 Inches</li> <li>• Cabinet Type: Single-side Type / Single Person</li> <li>• Airflow Velocity: 0.3 - 0.5 m/s</li> <li>• Display: LED Display</li> <li>• Max. Door Opening Height: 490 mm</li> <li>• Working Surface Height: 660 mm</li> <li>• Pre-Filter: Polyester Fiber Filter</li> <li>• HEPA Filter: 99.999 % efficiency at 0.3 <math>\mu</math>m</li> <li>• Cleanliness Class: Class 100</li> <li>• UV Lamp: 20 W</li> <li>• Illuminating Lamp: LED Lamp (8 W)</li> <li>• Noise: &lt; 65 dB</li> <li>• Product Safety: <math>\leq</math> 0.5 CFU / time</li> <li>• Power Consumption: 350 W</li> <li>• Power Supply: AC 220 V <math>\pm</math> 10%; 50 / 60 Hz</li> </ul> <p><b>OR</b></p> <p><b>Laminar Flow Cabinet, Vertical type, Medical type</b></p> <ul style="list-style-type: none"> <li>• Cleanliness level : ISO Class 5 (Class 100)</li> <li>• Down flow velocity: 0.25-0.6 m/ (adjustable)</li> <li>• Double-person and single surface</li> <li>• Intelligent LCD displays system parameters</li> <li>• With reasonable and safe structure design</li> </ul>	
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				<p><b>High-Quality &amp; Ergonomic Construction</b></p> <ul style="list-style-type: none"> <li>• 10°inclined operation surface, quasi-closed countertop with stepped design on the front</li> <li>• The outer box adopts the cold-rolled steel plate spraying process.</li> <li>• Adopt high-quality centrifugal fan, effectively prolong the service life of filter</li> </ul> <p><b>Energy-efficient</b></p> <ul style="list-style-type: none"> <li>• Adopt high-efficiency filter, energy saving and environmental protection</li> <li>• Intelligent LCD displays system parameters</li> <li>• Touch-type buttons to adjust various parameter settings</li> </ul> <p><b>Quiet Operation</b></p> <ul style="list-style-type: none"> <li>• Comfortable low noised <math>\leq 65\text{dBA}</math></li> <li>• Reduce fatigue and improve work concentration</li> </ul> <p><b>Safety Protection &amp; Structural Design</b></p> <ul style="list-style-type: none"> <li>• Interlocking protection design, the UV lamp and the lighting lamp are interlocked</li> <li>• Double side perspective window design with good lighting effect</li> <li>• Reasonable structural design, which makes maintenance and replacement of high efficiency filters and fans more convenient and fast.</li> </ul> <p><b>Specifications</b></p> <table border="1"> <tr> <td>Airflow mode</td> <td>Vertical air supply</td> </tr> <tr> <td>Cleanliness level</td> <td>ISO Class 5 (Class 100)</td> </tr> </table>	Airflow mode	Vertical air supply	Cleanliness level	ISO Class 5 (Class 100)	
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			<p>7, LCD screen, real-time display of running status (air velocity, timer, UV lamp time, HEPA filter running time);</p> <p>8, With ultraviolet lamp, fan appointment timing function;</p> <p>9, Unit conversion function, which switches units between PA and m/s;</p> <p>10. The UV lamp is turned on after 5S to protect the safety of the operators;</p> <p><b>11, Perfect alarm system:</b></p> <p>(1) Ultra-high filter pressure alarm</p> <p>(2) Filter failure replacement alarm</p> <p>(3) Front window opening safe height alarm</p> <p>(4) Low wind speed alarm</p> <p>12, Interlocking function: UV lamp and front window; UV lamp and fan, fluorescent lamp; fan and front window.</p> <table border="1"> <tr> <td>External Size (W*D*H)</td> <td>1500*760*1850mm</td> </tr> <tr> <td>Internal Size (W*D*H)</td> <td>1340*650*615mm</td> </tr> <tr> <td>Work Surface Height</td> <td>750mm</td> </tr> <tr> <td>Safety Height</td> <td>200~350mm</td> </tr> <tr> <td>Max Opening</td> <td>400mm</td> </tr> <tr> <td>Display</td> <td>LCD display</td> </tr> <tr> <td>Airflow Velocity</td> <td>0.30~0.45m/s</td> </tr> <tr> <td>Material</td> <td><b>Working area:</b> 304 stainless steel; <b>Main body:</b> 1.0mm cold-rolled steel with anti-bacteria powder coating; Front window: 5mm toughened glass, anti-UV.</td> </tr> <tr> <td>Pre-Filter</td> <td>Polyester fiber</td> </tr> <tr> <td>HEPA Filter</td> <td>One, 99.995% efficiency at 0.3μm</td> </tr> </table>	External Size (W*D*H)	1500*760*1850mm	Internal Size (W*D*H)	1340*650*615mm	Work Surface Height	750mm	Safety Height	200~350mm	Max Opening	400mm	Display	LCD display	Airflow Velocity	0.30~0.45m/s	Material	<b>Working area:</b> 304 stainless steel; <b>Main body:</b> 1.0mm cold-rolled steel with anti-bacteria powder coating; Front window: 5mm toughened glass, anti-UV.	Pre-Filter	Polyester fiber	HEPA Filter	One, 99.995% efficiency at 0.3μm
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		<b>1</b>	Each	<p style="text-align: center;"><b>Shaker</b></p> <p>Specification:</p> <ul style="list-style-type: none"> <li>• Digital LED display makes it easy to read the speed and timer function</li> <li>• Speed and timer can be electronically adjusted for precise control</li> <li>• Shaking orbit of 10.0 mm, which ensures consistent mixing and good oxygen input</li> <li>• Variable speed range of 10-500 rpm, making it suitable for a wide range of applications</li> <li>• Timer function (from 1 min to 99 h 59 min) and continuous operation available</li> <li>• RS 232 interface for external control and documentation through labworldsoft®</li> </ul>	<b>5</b>																												



				<ul style="list-style-type: none"> <li>Wide range of attachment combinations available, allowing users to use almost all shapes and sizes of vessels, accessories are not part of the scope of delivery and have to be ordered separately</li> </ul>	
		<b>10</b>	Each	<b>Franz cells</b>	<b>6</b>
		<b>1</b>	Each	<p><b>Probe Sonicator</b></p> <p>Applications: Ultrasonic homogenizers is mainly used in biological and chemical laboratories for DNA, RNA, and protein extraction, as well as for preparing samples for chromatography, spectroscopy, and other analytical techniques.</p> <p>Features :</p> <p>Single chip microcomputer controlled with TFT Touch Screen  Sample temperature detection  Memory storage up to 20 groups  Automatic frequency tracking and automatic fault alarm  Overload protect function  Voice alarm for over temperature or operation error  Optional Function: Data printing function and sound proof cabinet  lighting and sterilization</p> <p>Specifications :</p> <p>Ultrasonic Power 2.5 to 250 W  Disruption Capacity 0.1 - 300 mL  Standard Probe <math>\phi</math> 6 mm  Optional Probe <math>\phi</math> 2, <math>\phi</math> 3, <math>\phi</math> 8, <math>\phi</math> 10 mm  Operating Frequency 20 - 25 KHz, Automatic Tracking  Temperature Control Range 0 - 100 °C  Data Storage 20 sets</p>	<b>7</b>



				Ultrasonic Setting Time 0.1 - 99.9 s Total Working Time 1 - 99 h 59 m 59 s Alarm function Time, temperature, over load and no-load Power 220V / 50 Hz	
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