

# Monthly Report

December 2007

1- Needs have been identified from the laboratory equipment and tools, raw materials

First: the required equipment in the lab

Number	Brand name and specifications
2	<b>Automatic pipette</b> - (5-50) one piece - (100-1000) one pieces
3	<b>UV Lamp (120 Cm)</b>
1	<b>Filtration syringe</b> - Syringe to handle volumes ranging from 0.5 to 20ml. - 50 mm diameter syringe filters. - Pore size and membrane type 0.45µm
1	<b>Binocular microscope</b> Head: Binocular, 360° rotatable, inclined at 30°. Eyepiece: 10X/20mm. Objectives: 4X, 10X, 40X +100X achromatic Nosepiece: Quadruple revolving nosepiece. Stages: 360° rotatable stage- Condenser: bright field Abbe condenser-NA 1.5. Illumination: Halogen 6v/0w (variable) Main power: 0/40v 50/60 Hz.
1	<b>Phase contrast microscope with digital camera</b> <ul style="list-style-type: none"> <li>• Head Binocular configuration</li> <li>• Eyepiece : 10X/0MM WIDE FIELD</li> <li>• Nosepiece : Quintuple reversed and revolving with click stop and smooth operation.</li> <li>• Objectives: 10X (0.5 NA), 0X (0.4 NA), 40X (0.65 NA), 100X oil immersion objective.</li> <li>• Stage: Dimensions 10 *140 mm</li> <li>• Illumination: KOHLER type illumination system.</li> </ul> condenser: Phase contrast turret type-NA1.5 <ul style="list-style-type: none"> <li>• Iris diaphragm.</li> <li>• 4 phase annular stops , centrable and 1 neutral bright field position</li> </ul> <u>Supplied with</u>

	Additional centring telescope + green filter, dust caps, dustcover, immersion oil, fuse and spare halogen lamps 220 V , 50Hz. Power: 0-40V, 50/60HZ
<b>1</b>	<b>Stereomicroscope with camera</b> -A trinocular 20X-40X stereo microscope. - USB digital camera (Digimax A40). -30mm super widefield high-eyepoint eyepieces -A heavy-duty boom stand and a color digital camera. - 45° inclined trinocular and high-eyepoint optic design to ensure an easy observation, especially for eyeglass wearers..
<b>1</b>	<b>Incubator</b> Capacity: 40 L Temperature: Ambient +5 To 80 C Made From Stainless Steel Supplied By Two Shelves
<b>1</b>	<b>Oven</b> Capacity: 40 L Temp range : up to 350° C Capacity : 40 Lt Made from S.S internal and Coated external
<b>1</b>	<b>Refrigerator</b> - 350 ltr. (12 cu. ft.) - Two doors - Single temperature control for freezer & cabinet -Castors for easy movement and adjustable legs -Clean back
<b>1</b>	<b>Vertical Autoclave</b> -voltage : 230 v -frequency : 50/60 HZ -absorbed power : 1500 w -sterilizing cycle : 1( one) -sterilizing temp : 125°c
<b>1</b>	<b>Digital balance</b> 3 digit, Capacity 200g Reproducibility 0-001 g
<b>4</b>	<b>Water heater</b> for liquids supplemented with thermostat (with temperature range 25-50 °C)
<b>4</b>	<b>Water stirrer</b> for liquids (25 watt power)

<b>1</b>	<b>Air pump</b> (120 m <sup>3</sup> / hr) - Electromagnetic air compressor.
<b>1</b>	<b>Hot plate with magnetic stirrer</b> Heating Area: 18x18 cm Temperature: up to 400 °C Stirring speed: 100-16500 rpm

**Second: The tools and materials**

<i>Number</i>	<i>Brand name and specifications</i>
<b>10</b>	<b>Pipette (1 ml)</b>
<b>9</b>	<b>Pipette (2 ml)</b>
<b>10</b>	<b>Pipette (5 ml)</b>
<b>10</b>	<b>Pipette (10 ml)</b>
<b>3</b>	<b>Pipette (25 ml)</b>
<b>5</b>	<b>Measuring cylinder (50 ml)</b>
<b>5</b>	<b>Measuring cylinder (100 ml)</b>
<b>3</b>	<b>Measuring cylinder (250 ml)</b>
<b>5</b>	<b>Measuring cylinder (500 ml)</b>
<b>4</b>	<b>Measuring cylinder (1000 ml)</b>
<b>8</b>	<b>Conical flasks (2 Liter)</b>
<b>4</b>	<b>Conical flasks (1 Liter)</b>
<b>32</b>	<b>Conical flasks (125 ml)</b>
<b>30</b>	<b>Conical flasks (500 ml)</b>
<b>33</b>	<b>Conical flasks (250 ml)</b>
<b>12</b>	<b>Conical flasks (125 ml)</b>
<b>10</b>	<b>Beaker (100 ml)</b>
<b>14</b>	<b>Beaker (250 ml)</b>

<b>2</b>	<b>Beaker (500 ml)</b>
<b>8</b>	<b>Beaker (1000 ml)</b>
<b>4</b>	<b>Beaker (2000 ml)</b>
<b>5</b>	<b>Reagent Bottles (250 ml)</b>
<b>4</b>	<b>Reagent Bottles (500 ml)</b>
<b>50</b>	<b>Slides packages</b>
<b>50</b>	<b>Cover slips package</b>
<b>108</b>	<b>Petri dishes (12 cm diameter)</b>
<b>108</b>	<b>Petri dishes (9 cm diameter)</b>
<b>200</b>	<b>Petri dishes (5 cm diameter)</b>
<b>90</b>	<b>Test tubes (150 mm x 15 mm)</b>
<b>40</b>	<b>Test tubes with screw caps (100 mm x 13 mm)</b>
<b>50</b>	<b>Glass vials with screw caps (60 mm x 17 mm)</b>
<b>212</b>	<b>Test tubes with screw caps (20 x150 mm)</b>
<b>265</b>	<b>Glass vials with lids (250-500 ml)</b>
<b>3</b>	<b>Test tube rack (for 18 mm diameter)</b>
<b>4</b>	<b>Glass containers with cap (10 Liters)</b>
<b>20</b>	<b>Plastic racks (each rack consists of 5 boxes)</b>
<b>1</b>	<b>Plastic tank PVC (220 Liter)</b>
<b>1</b>	<b>Liter) Di 22Sprayer tank ( Martino made in Italy</b>
<b>3</b>	<b>Plastic bags for sterilization (250-500 ml)</b>
<b>10</b>	<b>Plastic bags (10 kg capacity)</b>
<b>4</b>	<b>Plastic net</b>

<b>1</b>	<b>Black plastic sheets (2 meter width)</b>
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*2-select Specifications of a computer which will be used to write reports*

*3-Selection of the design of a plant Bnchat*

*4-develop A list of needs of the tools and plastic bags,rice straw in quantities sufficient for the work of training courses for Bedouin on the production and cultivating mushrooms*