

## Sample submission guidelines for Standard Nucleic Acid Extraction (PCR Grade): MBS-6000 series

Service Category	Sample Type	Standard DNA Extraction (MBS-6001)	Standard Total RNA Extraction (MBS-6103)
Nucleic Acid Extraction	Tissue/Cell pellet from Bacteria, Fungus, Yeast, Animal	<ul style="list-style-type: none"> <li>Amount: 50 - 100 mg</li> <li>No. of replicates: 3</li> <li>Shipping condition: Dry ice</li> </ul>	<ul style="list-style-type: none"> <li>Amount: 50 - 100 mg</li> <li>No. of replicates: 3</li> <li>Shipping condition: Dry ice</li> </ul>
	Plant	<ul style="list-style-type: none"> <li>Amount: 150 - 500 mg wet weight or liquid nitrogen ground powder.</li> <li>Snap freeze fresh plant sample in liquid nitrogen</li> <li>No. of replicates: 3</li> <li>Shipping condition: Dry ice</li> </ul>	<ul style="list-style-type: none"> <li>Amount: 150 - 500 mg wet weight or liquid nitrogen ground powder.</li> <li>Snap freeze fresh plant sample in liquid nitrogen</li> <li>No. of replicates: 3</li> <li>Shipping condition: Dry ice</li> </ul>
	Blood	<p><b>Option 1: Buffy Coat</b></p> <ul style="list-style-type: none"> <li>Collect up to 3 ml blood in EDTA tube, centrifuge the blood with 2,500 x g for 10 minutes using swing bucket centrifuge</li> <li>Remove the plasma with 1 ml syringe, 21G needle</li> <li>Collect the buffy coat in 1.5/2 ml tube</li> <li>Store buffy coat in -80 °C freezer</li> <li>Shipping condition: Dry ice</li> </ul> <p><b>Option 2: Whole Blood, *Malaysia Customer only</b></p> <ul style="list-style-type: none"> <li>Volume: 1 - 3 ml freshly collected blood in EDTA Tube</li> <li>Blood samples to be submitted immediately after withdrawal.</li> <li>Results will not be guaranteed for blood samples that are more than <u>3 days old</u></li> <li>Shipping condition: <ul style="list-style-type: none"> <li>i) 4°C or Blue ice (reach within 3 days)</li> <li>ii) Dry ice (reach &gt; 3 days)</li> </ul> </li> </ul>	<p><b>White Blood Cell pellet</b></p> <ul style="list-style-type: none"> <li>Collect up to 3 ml blood in EDTA tube</li> <li>Transfer up to 1 ml whole blood into 2 ml microcentrifuge tube</li> <li>Pretreat the whole blood sample with RBC lysis buffer (1st BASE, K.BUF-9101-100ml)</li> </ul> <p><i>Protocol refer to: PrimeWay Total RNA Extraction Kit (1st BASE, KIT-9021), Protocol G – White Blood Cell (Leukocytes), Step 3A or 3B</i></p> <ul style="list-style-type: none"> <li>Store WBC pellet in -80 °C freezer</li> <li>No. of replicates: 3</li> <li>Shipping condition: Dry ice</li> </ul>
	Buccal swab sample	<ul style="list-style-type: none"> <li>Collect sample using swab or commercial swab sample collection kit</li> <li>(Optional) Store swab in 1X PBS or swab collection kit provided stabilizer</li> <li>Storage condition: -80°C or follow the guide from the commercial kit</li> <li>No. of replicates: 2 - 3</li> <li>Shipping condition: Dry ice</li> </ul>	Please enquire. Suggestion to follow commercially available collection kit guidelines for sample collection, preservation, storage and shipping.
	Saliva	Please enquire. Suggestion to follow commercially available saliva collection kit guidelines for sample collection, preservation, storage and shipping.	Please enquire. Suggestion to follow commercially available saliva collection kit guidelines for sample collection, preservation, storage and shipping.
Others	Please enquire.		