

### Preparation of Platelet Poor Plasma

Step	Action						
1.	<p>Proceed with the following steps <b>within 1 hour</b> after collection.</p> <ul style="list-style-type: none"> <li>For <b>Regional Centers</b> with access to procedures, please follow the <a href="#">Preparation of Platelet Poor Plasma</a> procedure for specific instructions.</li> </ul>						
2.	<p>Verify <b>fill level</b> is acceptable:</p> <ul style="list-style-type: none"> <li>For questions regarding proper fill levels for either Greiner Bio-One Vacuette® and BD Vactainer® tubes, please contact Customer Service at (715-221-6700) or refer to <b>Attachment I</b> of the <a href="#">Preparation of Platelet Poor Plasma</a> procedure for illustrations.</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">IF</th> <th style="text-align: center;">THEN</th> </tr> </thead> <tbody> <tr> <td>Sample volume is acceptable (within the allowable fill range)</td> <td>Proceed to the next step.</td> </tr> <tr> <td>Tube is under-filled or over-filled</td> <td>Reject the sample. Redraw required.</td> </tr> </tbody> </table>	IF	THEN	Sample volume is acceptable (within the allowable fill range)	Proceed to the next step.	Tube is under-filled or over-filled	Reject the sample. Redraw required.
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3.	<p>Centrifuge tubes with the brake OFF at either:</p> <ul style="list-style-type: none"> <li>➤ 1500 g's for 20 minutes</li> <li>➤ 3000 rpm for 10 minutes</li> <li>➤ <b>8500 rpm for 3 minutes in a Stat Spin</b></li> <li>➤ Acceptable RPM and time in a validated PPP centrifuge</li> </ul> <p>To centrifuge:</p> <ol style="list-style-type: none"> <li>a) Place the sample(s) into the centrifuge, balancing with a tube equivalent in size and volume.</li> <li>b) Ensure correct rpm/time settings have been selected.</li> <li>c) Press the start button.</li> <li>d) When the centrifuge has finished and come to a complete stop, <b>carefully</b> remove the specimen(s).</li> </ol>						
4.	<p>Review <b>packed red cell layer</b> after the first spin to assess approximate height compared to total volume (i.e. hematocrit, HCT) for acceptability:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">IF</th> <th style="text-align: center;">THEN</th> </tr> </thead> <tbody> <tr> <td>Red cell layer is equal to or less than that of the plasma layer</td> <td>Sample is acceptable. Proceed to next step.</td> </tr> <tr> <td>Red cell layer is greater than that of the plasma layer</td> <td> <p>Patient may have a high Hematocrit, which would require corrective action.</p> <ul style="list-style-type: none"> <li>Contact laboratory with questions (i.e. for patients with HCT &gt;55.0%, Corrected Blue Tops may be required).</li> </ul> </td> </tr> </tbody> </table>	IF	THEN	Red cell layer is equal to or less than that of the plasma layer	Sample is acceptable. Proceed to next step.	Red cell layer is greater than that of the plasma layer	<p>Patient may have a high Hematocrit, which would require corrective action.</p> <ul style="list-style-type: none"> <li>Contact laboratory with questions (i.e. for patients with HCT &gt;55.0%, Corrected Blue Tops may be required).</li> </ul>
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5.	Using a plastic pipette, transfer the plasma into a labeled <b>13 x 75 mm</b> aliquot tube. <b>Note:</b> Avoid pipetting too close to the RBCs.	
6.	<b>CLOT CHECK</b> the remaining sample (RBC layer) in the <b>original</b> blue top tube(s) using narrow wooden applicator sticks:	
	<b>IF</b>	<b>THEN</b>
	Sample clotted	Reject the sample. Redraw required.
	Sample not clotted	Proceed to the next step.
7.	Place the aliquot tube containing the transferred plasma into the centrifuge with an appropriate balance tube and re-spin using the same time/speed as the first spin.	
8.	Avoid disturbing the specimen while <b>carefully</b> removing the spun aliquot from the centrifuge.	
9.	Using a new plastic pipette, transfer the top $\frac{3}{4}$ of plasma into a new, labeled <b>13 x 75 mm</b> polypropylene tube without disturbing the button of cells at the bottom of the tube.	
10.	Using <b>clear tape</b> , tape the label to the aliquot tube to ensure it will remain attached. <b>Note:</b> This is especially important for samples that will be frozen.	
11.	If coagulation sample will not be tested within 2-4 hours of collection, freeze plasma immediately after separation and store at -20 °C for 1-2 months or at -70°C for up to six months.  <i>Note:</i> For specific volume requirements and sample storage information, see SPECIMEN section for each individual assay. Additionally, for the Marshfield location, refer to the <a href="#">Tests to be Spun in Platelet Poor Plasma Centrifuge</a> form.	

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