
Sufficient volume achieved if blood drawn falls above minimum fill indicator. For blood transfer, do not fill above illustrated dashed maximum line.

Note: The quantity of blood drawn into evacuated tubes varies with altitude, ambient temperature, barometric pressure, tube age, venous pressure and filling technique.

Minimizing Preanalytical Variables for Coagulation Tests

- Assemble needle in holder; always fully seat and **hold** a citrate tube on the back end of the needle while filling.
- Allow the tube to fill until the vacuum is exhausted and blood flow ceases.
- Tubes should fill between ±10% of the stated draw volume of the tube (CLSI guideline, Dec. 2003, Doc. H1-A5, Vol. 23, No. 33).
- Minimum fill indicator represents the minimum volume of blood required for appropriate analysis.
- A discard tube (without additives) **must** be used if **only** a citrate tube is to be drawn using a winged blood collection set. It is important to remove the air from the blood collection set to ensure the proper blood volume is obtained in the tube.
- Do not fill tubes from other tubes or combine two partially filled citrate tubes.
- If the specimen is drawn with a syringe, do not fill the BD Vacutainer® Citrate Tube beyond the level as illustrated on the reverse side of this guide. Allow the tube to draw the blood from the syringe using a BD Vacutainer® Blood Transfer Device if available. Do not force blood into tube.
- Immediately after draw, **gently** invert tube 3 to 4 times. **Do not shake.**

<table>
<thead>
<tr>
<th>Cat#</th>
<th>Size</th>
<th>Draw</th>
<th>Citrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>363083</td>
<td>13 x 75 mm</td>
<td>2.7 mL</td>
<td>3.2% (0.109M)</td>
</tr>
<tr>
<td>363080</td>
<td>13 x 75 mm</td>
<td>1.8 mL</td>
<td>3.2% (0.109M)</td>
</tr>
</tbody>
</table>