

# BD Vacutainer® Plus – Plastic Citrate Tube Draw Volume Guide

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.

Ref. #363083



Maximum Fill\*

Minimum Fill  
Indicator

Now with  
Minimum Fill  
Indicator

Represents minimum  
volume of blood  
required for  
appropriate analysis

2.7 mL  
Draw Tube  
13 mm x 75 mm  
Full Draw

Ref. #369714



4.5 mL  
Draw Tube  
13 mm x 75 mm  
Full Draw

## Minimizing Preamanalytical Variables for Coagulation Tests

- Assemble needle in holder; always 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  $\pm 10\%$  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 the 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.

Cat#	Size	Draw	Citrate
363083	13x75 mm	2.7 mL	3.2% (0.109M)
369714	13x75 mm	4.5 mL	3.2% (0.109M)



Allina Health  

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LABORATORY