

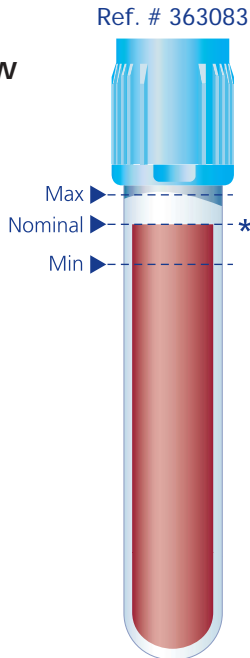
## BD Vacutainer™ Plus Plastic Citrate Tube Draw Volume Guide

*Ensure proper draw volume by holding tube up to this guide.*

*Sufficient volume achieved if blood drawn falls within the dashed minimum and maximum fill lines illustrated on the tubes pictured to the right.*

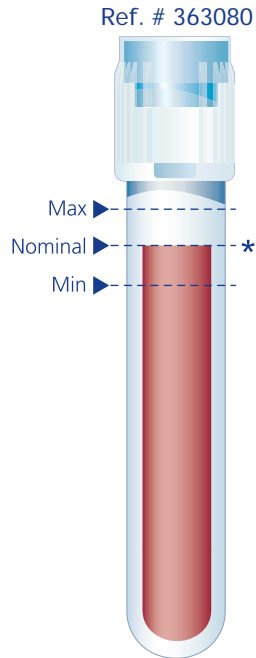
**Note:** The quantity of blood drawn into evacuated tubes varies with altitude, ambient temperature, barometric pressure, tube age, venous pressure and filling technique.

\*  $\pm 10\%$  draw and fill accuracy.  
NCCLS Dec. '96, Doc. H1-A4,  
Vol. 16, No. 13



**2.7mL Draw Tube**

13mm x 75mm  
Full Draw



**1.8mL Draw Tube**

13mm x 75mm  
Full Draw

# 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  $\pm 10\%$  of the stated draw volume of the tube (NCCLS Guideline, Dec. '96, Doc. H1-A4, Vol. 16, No. 13).
- 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 insure the proper blood volume is obtained in the coag 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™ 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 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	13x75mm	2.7mL	3.2% (0.109M)
363080	13x75mm	1.8mL	3.2% (0.109M)



**BD Vacutainer Technical Services: 1.800.631.0174**  
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