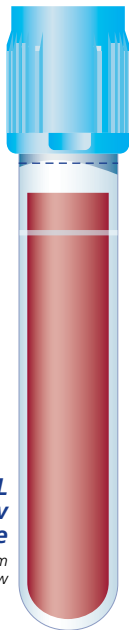


## BD Vacutainer® Plus Plastic Citrate Tube Draw Volume Guide

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

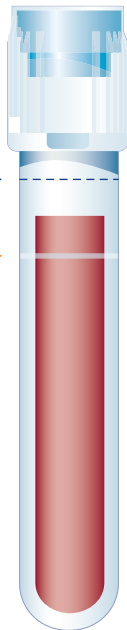
**Note:** The quantity of blood drawn into evacuated tubes varies with altitude, ambient temperature, barometric pressure, tube age, venous pressure and filling technique.

Ref. # 363083



**2.7 mL  
Draw  
Tube**  
13 mm x 75 mm  
Full Draw

Ref. # 363080



**1.8 mL  
Draw  
Tube**  
13 mm x 75 mm  
Full Draw

Maximum Fill\*

Minimum Fill  
Indicator

**Now with  
Minimum Fill  
Indicator**

*Represents minimum  
volume of blood  
required for  
appropriate analysis*

\*According to CLSI guideline,  
Dec. 2003, Doc. H1-A5, Vol. 23, No. 33.

# 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 (CLSI guideline, Dec. 2003, Doc. H1-A5, Vol. 23, No. 33).
- Minimum fill indicator represents the minimum volume of blood required for appropriate analysis.
- When using a winged blood collection set for venipuncture and a coagulation (citrate) tube is the first specimen tube to be drawn, a discard tube should be drawn first. 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.**

Cat#	Size	Draw	Citrate
363083	13 x 75 mm	2.7 mL	3.2% (0.109M)
363080	13 x 75 mm	1.8 mL	3.2% (0.109M)

**BD Global Technical Services: 1.800.631.0174**  
**[www.bd.com/vacutainer](http://www.bd.com/vacutainer)**

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**BD Diagnostics**  
 Preanalytical Systems  
 1 Becton Drive  
 Franklin Lakes, NJ 07417