

**Alert: Becton Dickinson 3.2% Sodium Citrate tubes for all
Coagulation Testing**

DMC University Laboratories has identified a delayed clotting problem with the Greiner 3.2% sodium citrate (powder blue top) tubes for coagulation studies. We request that all Coagulation studies be collected in the **Becton-Dickson 3.2% Sodium Citrate powder-blue top**. These collection tubes have been used previously for Coagulation studies without any clotting issues.

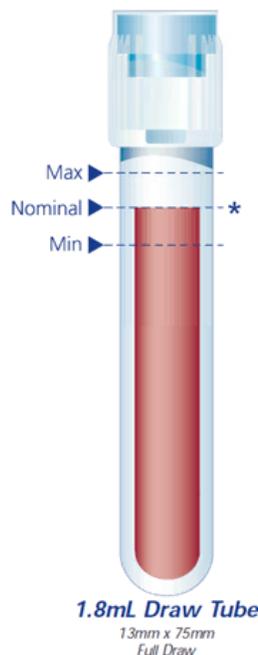
The etched fill indicator on the plastic citrate tubes indicates the minimum acceptable blood volume in the tube. Specimens that are over-filled or under-filled are not acceptable for patient testing. It is also important to ensure a **discard tube is drawn when a blood collection set is used and only a citrate tube is ordered**, as the tubing may contain up to 0.5 mL of air that will be drawn into the tube and displace blood volume.

Becton Dickson (BD) recommends that the 3.2 % sodium citrate tubes be **inverted 3 to 4 times**, after the phlebotomy has been completed.

**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.*



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