



Cap colour	Tube Size in mm	13/75				13/100		16/100			
		Vol. in ml		1.5	2	3	3.5	4	5	6	8
Clinical Chemistry	Z	Clot Activator		PREM/NR	PREM/NR		PREM/NR		PREM/NR		NR
	Z	Clot Activator + Gel					PREM/NR	PREM/NR		NR	NR
	LH	Lithium Heparin		PREM/NR	PREM/NR		PREM/NR		PREM/NR		NR
	LH	Lithium Heparin + Gel			NR		PREM/NR	PREM/NR		NR	
	NH	Sodium Heparin					PREM/NR		PREM/NR		NR
Coagulation	9NC	Trisodium citrate solution		PREM/NR	PREM/NR	PREM/NR					
	K3E	*** EDTA K3		PREM/NR	PREM/NR	PREM/NR		PREM	PREM/NR		NR
Specialities	FX	Sodium fluoride Potassium oxalate			PREM		PREM/NR		PREM		
	FE	Sodium fluoride EDTA K3		PREM/NR			PREM/NR				
	ESR	Trisodium citrate		* NR	PREM/NR	* NR	**				

PREM = PREMIUM (Safety Twist Cap), NR = Non-ridged (pull cap)
 * PP tube, size 9x120 mm, ** 2.75 ml, *** EDTA K2 available

VACUETTE® Coagulation

These tubes are used for determinations in citrated plasma for coagulation testing. The buffered sodium citrate solution 3.2 % (0.109 mol/l) functions as anticoagulant by chelating calcium. The proportion of blood to sodium citrate anticoagulant volume is 9:1.

VACUETTE® Serum

Serum Tubes are used for determinations in serum for clinical chemistry, microbiological, serology, immunology and TDM. The tubes are coated with a clot activator. The recommended clotting time is 30 minutes. Serum Gel Tubes allow storage of certain parameters under the recommended storage conditions for up to 48 hours.

VACUETTE® Plasma

The tubes are used for determinations in plasma for clinical chemistry. The heparin concentration is standardised: 18 I.U. of lithium-, sodium- or ammonium salt of heparin per 1 ml. Plasma Gel Tubes allow storage of certain parameters under the recommended storage conditions for up to 48 hours.

VACUETTE® EDTA

EDTA Tubes are used for determinations in EDTA whole blood for haematology and immuno haematology. The tube interior of EDTA K3 Tubes is spray dried with 1.8mg anhydrous EDTA per 1 ml blood.

VACUETTE® Glucose

Glucose Tubes are used for the analysis of blood sugar and lactate in stabilised whole blood or plasma. Sodium fluoride is used as glycolysis inhibitor to preserve glucose when combined with an anticoagulant such as potassium oxalate or EDTA.

VACUETTE® ESR

Sodium citrate solution 3.2 % (0.109 mol/l) is the anticoagulant of choice for the measurement of the ESR. The proportion of blood to sodium citrate anticoagulant volume is 4:1.



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VACUETTE® Specimen Collection System

Our Innovations for Your Safety

900044 rev. 01, 04.2011 e



1 Thread the needle into the needle holder. Ensure that the needle is firmly seated in the holder. Leave the remaining section of the cover in place.



2 Apply tourniquet if required and disinfect the venipuncture site.



3 Place the patient's arm in a downward position and insert the needle into the vein as usual.



4 Push the tube into the holder and onto the needle valve puncturing the rubber stopper. Hold in place with the thumb. The prespecified vacuum of the tube allows the required quantity of blood to flow into the tube.



5 Remove the tourniquet as soon as blood appears in the tube. When the first tube is full and the blood flow ceases, remove it from the holder. Further samples can then be collected by inserting more tubes into the holder.



6 In order to ensure correct mixing of the sample with the additives, gently invert the tubes 5-10 times immediately following collection. After the last tube has been drawn and the blood flow ceases, remove the needle from the vein.



7 Dispose of the needle together with holder in a sharps disposal container specially intended for this purpose.

Components



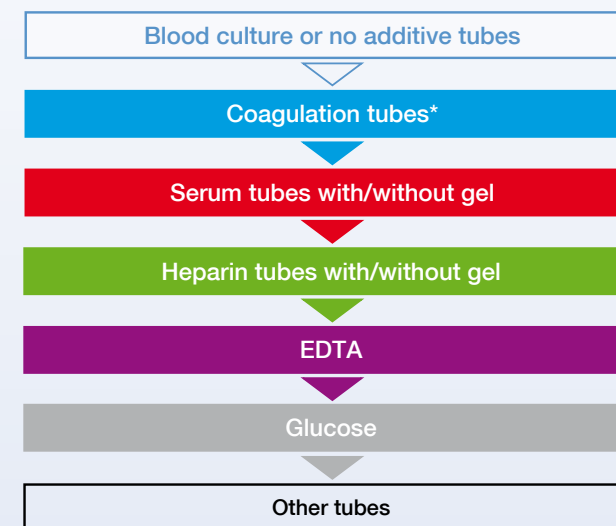
VACUETTE® Specimen Collection System



The invention of the world's first evacuated blood collection system made out of PET plastic by Greiner Bio-One has made specimen collection a lot safer. The innovative VACUETTE® system guarantees simple handling and hygiene in order to make your daily work easier.

for more details please see:
www.gbo.com/preanalytics

Recommended order of draw:



* Coagulation tubes may be the first tube to be drawn for routine testing only (PT und aPTT).
Note: Always follow your facility's protocol for order of draw.

The VACUETTE® system combines the advantages of vacuum technology with unique safety characteristics for the patient and the user.

Specification

- clear as glass but virtually unbreakable
- screw caps for increased safety and simplified opening
- colour coded rings offer additional visual identification of tube characteristics
- longer shelf-life due to tube design
- compatible with all common analyser systems
- Fill-line on each tube for simple visual check

Safety

- unbreakable during centrifugation, handling and transportation
- all VACUETTE® tubes are sterile
- reproducibility of test results is guaranteed
- fast & reliable test results
- VACUETTE® Sandwich tube with patented double wall technology; the ultimate standard (NCCLS recommendation) for coagulation tests
- incineration of VACUETTE® tubes is environmental friendly as PET breaks down into 3 natural components: carbon, hydrogen and oxygen

Standards

- VACUETTE® products are US FDA approved
- manufacturing complies to EC directives and US regulations (ISO 9001, GMP)