












Specimen Collection- Tube Types

BD Vacutainer Tubes with BD Hemogard Closure	Additive	Inversions at Blood Collection*	Laboratory Use	Draw Amount / Approx. yield of supernatant
 Gold/SST	• Clot activator and gel for serum separation	5	For serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.	5.0 mL Whole Blood Yields ≈ 2.5 mL Serum
 Red	• Clot activator, Silicone coated (plastic)	5	For serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 60 minutes.	6.0 mL Whole Blood Yields ≈ 3.0 mL Serum
 Royal Blue K2 EDTA	• Clot activator (plastic) • K2EDTA Light blue horizontal stripe with "Plus" on tube label	8	For trace-element, toxicology, and nutritional-chemistry determinations. Special stopper formulation provides low levels of trace elements (see package insert). Tube inversions ensure mixing of anticoagulant (EDTA) with blood.	6.0 mL Whole Blood Yields ≈ 3.0 mL Plasma
 Royal Blue No Additive	• Clot activator (plastic) • No Additive Red vertical stripe on tube label	8	For trace-element, toxicology, and nutritional-chemistry determinations. Special stopper formulation provides low levels of trace elements (see package insert). Tube inversions ensure mixing of clot activator with blood.	6.0 mL Whole Blood Yields ≈ 3.0 mL Serum
 Green	• Sodium heparin or Lithium heparin	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	6.0 mL Whole Blood Yields ≈ 3.0 mL Plasma
 Gray	• Potassium oxalate/ sodium fluoride	8	For glucose determinations. Sodium fluoride is the antiglycolytic agent. Tube inversions ensure proper mixing of additive with blood.	6.0 mL Whole Blood Yields ≈ 3.0 mL Plasma
 Lavender	• Spray-coated K2EDTA (plastic)	8	K2EDTA for whole blood hematology determinations. Tube inversions ensure mixing of anticoagulant(EDTA) with blood to prevent clotting.	3.0 mL (Peds) Whole Blood Yields ≈ 1.5 mL Plasma 4.0 mL Whole Blood Yields ≈ 2.0 mL Plasma
 Pink	• Spray-coated K3E EDTA K3 (plastic)	8	For use in Blood Bank for blood type and RH. Designed with special cross-match label for patient information required by the AABB. Tube inversions prevent clotting.	6.0 mL
 Light Blue	• Buffered sodium citrate 0.109 M (3.2%) plastic	4	For coagulation determinations. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting. A properly filled tube will be filled past the etched minimum fill line. However, do not overfill past the bottom of the blue cap.	2.7mL must fill above etched FILL-LINE
 White/PPT Tube	• K2EDTA with gel	8	For use in molecular diagnostic test methods (such as, but not limited to, polymerase chain reaction [PCR] and/or branched DNA [bDNA] amplification techniques.) Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.	5.0 mL Whole Blood Yields ≈ 2.5 mL Plasma
 Yellow (ACD A or B)	• ACD Solution A or B	8	ACD A - 22.0 g/L trisodium citrate, 8.0 g/L citric acid, 24.5 g/L dextrose ACD B - 13.2 g/L trisodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose ACD for use in HLA phenotyping, and DNA and paternity testing. Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.	ACD A=8.5 mL ACD B=6.0 mL