

BD Vacutainer[®] Venous Blood Collection Tube Guide

For the full array of BD Vacutainer[®] Blood Collection Tubes, visit www.bd.com/vacutainer. Many are available in a variety of sizes and draw volumes (for pediatric applications). Refer to our website for full descriptions.

BD Vacutainer [®] Tubes with BD Hemogard [™] Closure	BD Vacutainer® Tubes with Conventional Stopper	Additive	Inversions at Blood Collection*	Laboratory Use	Your Lab's Draw Volume/Remarks
Gold	Red/ Gray	 Clot activator and gel for serum separation 	5	For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious disease. ^{**} Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.	
Light Green	Green/ Gray	 Lithium heparin and gel for plasma separation 	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	
Red	Red	 Silicone coated (glass) Clot activator, Silicone coated (plastic) 	0 5	For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious disease. ^{**} Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 60 minutes.	
Orange		 Thrombin-based clot activator with gel for serum separation 	5 to 6	For stat serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
Orange		Thrombin-based clot activator	8	For stat serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
Royal Blue		 Clot activator (plastic serum) K₂EDTA (plastic) 	8 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 either clot activator or anticoagulant (EDTA) with blood.	
Green	Green	 Sodium heparin Lithium heparin 	8 8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	
Gray	Gray	 Potassium oxalate/ sodium fluoride Sodium fluoride/Na₂ EDTA Sodium fluoride (serum tube) 	8 8 8	For glucose determinations. Oxalate and EDTA anticoagulants will give plasma samples. Sodium fluoride is the antiglycolytic agent. Tube inversions ensure proper mixing of additive with blood.	
Tan		• K ₂ EDTA (plastic)	8	For lead determinations. This tube is certified to contain less than .01 µg/mL(ppm) lead. Tube inversions prevent clotting.	
	Yellow	 Sodium polyanethol sulfonate (SPS) Acid citrate dextrose additives (ACD): Solution A - 22.0 g/L trisodium citrate, 8.0 g/L citric acid, 24.5 g/L dextrose Solution B - 13.2 g/L trisodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose 	8 8 8	SPS for blood culture specimen collections in microbiology. ACD for use in blood bank studies, HLA phenotyping, and DNA and paternity testing. Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.	
Lavender	Lavender	 Liquid K₃EDTA (glass) Spray-coated K₂EDTA (plastic) 	8 8	K ₂ EDTA and K ₃ EDTA for whole blood hematology determinations. K ₂ EDTA may be used for routine immunohematology testing, and blood donor screening. ^{***} Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.	
White		 K₂EDTA and gel for plasma separation 	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.	
Pink	Pink	 Spray-coated K₂EDTA (plastic) 	8	For whole blood hematology determinations. May be used for routine immunohematology testing and blood donor screening. ^{***} Designed with special cross-match label for patient information required by the AABB. Tube inversions prevent clotting.	
Light Blue	Light Blue	 Buffered sodium citrate 0.105 M (≈3.2%) glass 0.109 M (3.2%) plastic Citrate, theophylline, adenosine, dipyridamole (CTAD) 	3-4 3-4	For coagulation determinations. CTAD for selected platelet function assays and routine coagulation determination. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
Clear					
Clear	New Red/ Light Gray	• None (plastic)	0	For use as a discard tube or secondary specimen tube.	

Note: BD Vacutainer[®] Tubes for pediatric and partial draw applications can be found on our website.

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- * Invert gently, do not shake
 ** The performance characteristics of these tubes have not been established for infectious disease testing in general; therefore, users must validate the use of these tubes for their specific assay-instrument/reagent system combinations and specimen storage conditions.
 *** The performance characteristics of these tubes have not been established for immunohematology testing in general; therefore, users must validate the use of these tubes for their specific assay-instrument/reagent system combinations and specimen storage conditions.