

# BD Vacutainer® Venous Blood Collection Tube Guide

For the full array of BD Vacutainer® Blood Collection Tubes, visit [www.bd.com/vacutainer](http://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.



Helping all people live healthy lives

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
		▪ Clot activator and gel for serum separation	5	For serum determinations in chemistry. May be used for routine blood draws, coagulation and diagnostic testing of serum for infectious disease. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.	
		▪ Lithium-heparin and gel for plasma separation	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulants (heparin) with blood to prevent clotting.	
		▪ Silicone-coated glass ▪ Clot activator, silicone-coated plastic	5	For serum determinations in chemistry. May be used for routine blood draws, coagulation and diagnostic testing of serum for infectious disease. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 450 minutes.	
		▪ Thrombin-based clot activator with gel for serum separation	5 to 6	For clot serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
		▪ Thrombin-based clot activator	8	For clot serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.	
		▪ Clot activator (plastic serum) ▪ K <sub>2</sub> EDTA (plastic)	8	For trace-element, toxicology and nutritional-chemistry determinations. Special stopper formulation provides low levels of trace elements. Tube inversions ensure mixing of either clot activator or anticoagulant (K <sub>2</sub> EDTA) with blood.	
		▪ Sodium-heparin ▪ Lithium-heparin	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulants (heparin) with blood to prevent clotting.	
		▪ Potassium-muricate, sodium fluoride ▪ Sodium Fluoride-K2EDTA (K2SA) ▪ Sodium Fluoride (serum tube)	8	For glucose determinations. Chelate and EDTA anticoagulants with give plasma samples. Sodium fluoride is the antidiagnostic agent. Tube inversions ensure proper mixing of additive with blood.	
		▪ K <sub>2</sub> EDTA (plastic)	8	For lead determinations. This tube is certified to contain less than 10 µg/mg lead. Tube inversions prevent clotting.	
		▪ Sodium poly(methyl sulfone) (SPS) ▪ Acid citrate dextrose (ACD) <b>Solution A</b> - 22.0 g/L trisodium citrate, 8.0 g/L citric acid, 24.5 g/L glucose <b>Solution B</b> - 13.2 g/L trisodium citrate, 4.8 g/L citric acid, 14.7 g/L dextrose	8	SPS for blood culture specimen collections in microbiology.	
		▪ Liquid K <sub>2</sub> EDTA (glass) ▪ Spray-coated K <sub>2</sub> EDTA (plastic)	8	ACD for use in blood bank studies, HLA, phenotyping, and DNA and paternity testing.	
				Tube inversions ensure mixing of anticoagulants (K <sub>2</sub> EDTA) with blood to prevent clotting.	
		▪ K <sub>2</sub> EDTA and gel for plasma separation	8	For use in molecular diagnostic test methods. (Such as, but not limited to, polymerase chain reaction (PCR) analysis, and DNA (micro)amplification analysis). Tube inversions ensure mixing of anticoagulant (K <sub>2</sub> EDTA) with blood to prevent clotting.	
		▪ Spray-coated K <sub>2</sub> EDTA (plastic)	8	For whole blood hematology determinations. May be used for routine immunochemistry testing and blood donor screening. Each tube is labeled with patient information required by the AABB. Tube inversions prevent clotting.	
		▪ Buffered sodium citrate 0.105 M (0.2%) glass ▪ Citrate, thiophosphate, adenosine, diphosphate (CTAD)	3-6	For coagulation determinations. CTAD for selected platelet function assays and routine coagulation determination. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
		▪ None (plastic)	10	For use as a discard tube or secondary specimen tube.	

**Niobec BD Vacutainer® Tubes for pediatric and partial draw applications can be found on our website.**

BD Diagnostics  
Pneumology Systems  
1 Becton Drive  
Franklin Lakes, NJ 07417 USA

BD Global Technical Services: 1-800-431-0174  
BD Customer Service: 1-888-237-2762  
[www.bd.com/vacutainer](http://www.bd.com/vacutainer)

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Other performance characteristics of these tubes have not been established for infectious disease testing in general. Therefore, users must make their own determination as to their suitability for these applications. BD does not make any representations or warranties concerning the use of these tubes for their specific applications. BD is not responsible for any combinations or applications in which these tubes are used. Therefore, the use of these tubes for their specific applications is the sole responsibility of the user.

# Ultimate Guide Tube Recommendations

**Scott C. Dulebohn**

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