

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.



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
 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) • K ₂ EDTA (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 proper mixing of additive 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/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 25 µg/mL of lead. Tube inversions prevent clotting.	
		• Sodium polyanethanol 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 K ₂ EDTA (glass) • Spray-coated K ₂ EDTA (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		• K ₂ EDTA 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 K ₂ EDTA (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 0.109 M (3.2%) glass 0.109 M (3.2%) plastic	3-4 3-4	For coagulation determinations. Citrate for selected platelet function assays and routine coagulation determination. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
 Clear		• Citrate, theophylline, adenosine, dipyridamole (CTAD)			
 Clear	 None 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.

BD Diagnostics
Pharmaceutical Systems
1 Beckton Drive
Franklin Lakes, NJ 07417 USA

BD Global Technical Services: 1.800.631.2174
BD Customer Service: 1.888.237.2762
www.bd.com/vacutainer

* Invert gently, do not shake.
** The performance characteristics of these tubes have not been established for infectious disease testing in general; therefore, users must evaluate the use of these tubes for infectious disease specimen collections and process storage conditions.
*** The performance characteristics of these tubes have not been established for parasitology testing in general; therefore, users must evaluate the use of these tubes for parasitology specimen collections and process storage conditions.

6 Guide Tube Recommendations

Hussin A.Rothana



6 Guide Tube Recommendations:

, **Applied Mechanics Reviews** ,1964 **Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Department of Defense** American Council on Education,1978 **Official Gazette of the United States Patent Office** United States. Patent Office,1917 Specifications and Drawings of Patents Issued from the United States Patent Office United States. Patent Office,1909 *Safety Analysis for a Fuel Qualification Test with Supercritical Water* Raqué, Manuel,2015-01-07 **Operator's, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts List for Torch Outfit, Welding, Gas, Model 137 (NSN 3431-00-691-1415).** ,1985 *Official Gazette of the United States Patent and Trademark Office* United States. Patent and Trademark Office,1999 *PM-1 Reactor Core Final Design Report* ,1962 **Rules and Regulations** U.S. Nuclear Regulatory Commission,1987

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