

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 clot 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 clot 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 polyacrylate 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. CTSAD 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.

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Pharmaceutical Systems
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BD Customer Service: 1.888.237.2762
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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 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 immunohematology testing in general; therefore, users must evaluate the use of these tubes for immunohematology specimen collections and process storage conditions.

Collection Tube Recommendations

Julijana Ivanisevic, Martin Giera



Collection Tube Recommendations:

Guidelines for Collecting and Processing Samples of Stream Bed Sediment for Analysis of Trace Elements and Organic Contaminants for the National Water-Quality Assessment Program L. R. Shelton, Paul D. Capel, 1994 Quality in Laboratory Hemostasis and Thrombosis Steve Kitchen, John D. Olson, F. Eric Preston, 2013-02-26

Quality in Laboratory Hemostasis and Thrombosis Second Edition Edited by Steve Kitchen Clinical Scientist Sheffield Haemophilia and Thrombosis Centre Royal Hallamshire Hospital and Scientific Director UK National External Quality Assessment Scheme FQAS for Blood Coagulation Scientific Director WHO and WFH International External Quality Assessment Programs for Blood Coagulation Sheffield UK John D Olson Professor and Vice Chair for Clinical Affairs Department of Pathology University of Texas Health Sciences Centre San Antonio Texas USA F Eric Preston Emeritus Professor of Haematology University of Sheffield and Director WHO and WFH International External Quality Assessment Programs for Blood Coagulations Sheffield UK

The hemostasis laboratory has a vital role in the diagnosis and management of patients with familial and acquired hemorrhagic and thrombotic disorders Rapid changes in the number and complexity of tests in this discipline have presented challenges for laboratories as they develop quality programs for the oversight of this testing

Quality in Laboratory Hemostasis and Thrombosis has been completely revised and updated to reflect the changing process of managing quality The second edition provides information on all aspects of testing from pre analytic to analytic and result reporting in addition to external quality assurance Chapters throughout the book include the development of global guidelines for methods as well as the preparation of international standard plasmas and reagents Designed to capture the elements of quality at all levels of the practice of laboratory hemostasis and thrombosis this book will guide the reader through the development of a quality program to support all activities in the hemostasis laboratory both simple and complex

Titles of related interest

Lee Textbook of Hemophilia 2e 2010 ISBN 9781405169141 Federici Von Willebrand Disease Basic and Clinical Aspects 1e 2011 ISBN 9781405195126 Ma Hemophilia and Hemostasis A Case Based Approach to Management 2e 2012 ISBN 9780470659762

Hemostasis and Thrombosis Emmanuel J. Favaloro, Robert C. Gosselin, 2023-05-19

This second edition volume expands on the previous edition with updates about the latest state of the art techniques used in leading hemostasis and thrombosis laboratories for diagnosis and exclusion of hemorrhagic and thrombotic diseases The chapters in this book are organized into seven parts

Part One provides a general overview on hemostasis and thrombosis preanalytical issues in testing and routine hemostasis assays

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Part Three addresses monitoring continuous anticoagulant infusions and measuring the effects of oral anti thrombotic therapy

Part Four talks about heparin induced thrombocytopenia and vaccine induced immune thrombotic thrombocytopenia

Part Five and Six cover ADAMTS13 activity testing and new information on bleeding disorders such as chromogenic factor VIII assays measurement of emicizumab and

treatment of hemophilia A and B Finally Part Seven discusses global assays research applications and postanalytical considerations Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Hemostasis and Thrombosis Methods and Protocols Second Edition is a valuable resource for scientists and researchers struggling to identify the appropriate methods for hemostasis and thrombosis testing or who seek additional expert guidance on such testing Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value NEW Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation NEW Standard and international units of measure make this text appropriate for any user anywhere in the world NEW 22 new chapters that focus on applications of mass spectrometry hematology transfusion medicine microbiology biobanking biomarker utility in the pharmaceutical industry and more NEW Expert senior editors Nader Rifai Carl Wittwer and Rita Horvath bring fresh perspectives and help ensure the most current information is presented UPDATED Thoroughly revised and peer reviewed chapters provide you with the most current

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an ideal reference to be used in a clinical setting Federal Register ,1979-09 **A Practical Guide to Metabolomics Applications in Health and Disease** Julijana Ivanisevic,Martin Giera,2024-02-26 This well accessible textbook constitutes a practical guide to metabolomics approaches and applications in an integrative manner Illustrated by numerous real life examples and case studies the book teaches how to set up and carry out metabolomics experiments from sample collection to storage techniques and guides the reader through the potentials and challenges of metabolite analysis In addition this textbook shows how to obtain insights into molecular mechanisms deployed in different physiological contexts e g exercise healthy ageing as well as in different metabolic diseases be it Diabetes Cancer Alzheimer s Disease Asthma or others The book brings together knowledge from biochemical biological and medical aspects and further equips the reader with know how from sample collection and handling to data processing analysis and interpretation This textbook is a must have for advanced undergraduates and graduate students interested in applied biochemistry and metabolomics as well as for instructors who teach courses in biomedicine physiology or biochemistry *Code of Federal Regulations* ,2010 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of July with ancillaries

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