

# BD Vacutainer® System

BD Diagnostics – Preanalytical Systems

## Tube Guide including Order of Draw

Please display this in your clinical areas beside your venopuncture equipment

### St Vincents University Hospital - Warrington

Blood samples should be taken in the following order:

Catalogue Number	Colour Code	Tube Type	Determinations	Special Instructions
		Blood Culture	Aerobic followed by anaerobic - if insufficient blood for both culture bottles, use aerobic bottle only	
		Sodium Citrate	Coagulation Testing, PT, INR, APTT, D-Dimer, etc.	
Draw Volume		Serum	LDH, Serum Ca, Drugs (Phenytoin, Theophylline, Methimazole, Lithium), Vitamin D, Parathyroid Hormone, Osteocalcin, Bone Markers, Endocrine Testing (excluding thyroid)	
		SST™ II	HA, Hb, Ht, Creat, Urea, Glc, ACR, ALB, ALT, ALP, AST, BUN, CA, CHOL, CRP, GGT, HbA1c, Immunoglobulin (IgG, IgA, IgM, IgD, IgE), Electrolytes, Kt, Magnesium, Calcium, Phosphorus, Bilirubin, BUN, CRP, Thyroid Ab, Liver Ab, Rheumatoid Factor Ab	
Draw Volume		PST™ II	UE, LFT, Cardiac Enzymes, Ca, Mg, Phosphate, Uric Acid, Total Protein, Amylase, Lipids, Bone Profile, Troglycerin, Iron Status, BUN	Please fill tubes to capacity, otherwise samples may not be accepted by the laboratory
Draw Volume		EDTA	Full Blood Count (FBC) and ESR, C3 / C4, Haemoglobin A1c, Homocysteine, ACTH	1 tube for FBC & ESR, 2 tubes for C3 & C4, 1 tube for HbA1c, 1 tube for ACTH
Draw Volume		Cross Match	Blood Transfusion Samples	
Draw Volume		Fluoride Oxalate	Glucose	Please mix 15-30 times
Draw Volume		Trace Element	Trace Elements	

RECOMMENDED ORDER OF DRAW

1. Blood Culture bottles
2. COAGULATION tubes
3. Tubes with NO ADDITIVES
4. OTHER tubes with ADDITIVES

For further copies of this guide and questions regarding specific tests, please contact Warr Pathology Laboratory

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# Bd Diagnostics Preanalytical Systems

**G Orfield**



## **Bd Diagnostics Preanalytical Systems:**

**New Product Development** Scott J. Edgett, 2011      Lexikon der Medizinischen Laboratoriumsdiagnostik Axel M. Gressner, Torsten Arndt, 2019-03-06 3624 Einträge und über 8800 Suchbegriffe zu allen Haupt- und Nebengebieten der Laboratoriumsmedizin Kenngrößen mit Präanalytik Analytik und Interpretation Analysemethoden gut verständlich beschrieben Statistik und Qualitätsmanagement Labororganisation und EDV Der schnelle Zugang zur gesuchten Information wird erleichtert durch den lexikalischen Aufbau von A bis Z und einheitlich strukturierte Beiträge mit Literaturverweisen über 730 Abbildungen davon über 400 in Farbe und über 380 Tabellen tragen zur Anschaulichkeit bei Neu in der 3. Auflage Ein Großteil der Beiträge wurde aktualisiert und zahlreiche neue Einträge und Suchbegriffe aufgenommen Parallel zur gedruckten und eBook-Ausgabe erscheint eine online-Version, die als Live-Reference-Ausgabe kontinuierlich aktualisiert wird Für Ärzte aller Fachgebiete Biochemiker Chemiker Fachberufe im Gesundheitswesen Pharmazeuten Toxikologen und Verwaltungsmitarbeiter im Gesundheitswesen sowie Lernende in den entsprechenden Studien und Ausbildungswegen

**Clinical Hematology: Theory & Procedures, Enhanced Edition** Mary Lou Turgeon, 2020-06-29 Clinical Hematology Theory Procedures Enhanced Sixth Edition is a competency-based text with built-in study tools to help you master the theory of clinical hematology and the procedures used to diagnose and treat disorders of the blood and bone marrow

**Proteomics Sample Preparation** Jörg von Hagen, 2011-08-24 This long-awaited first guide to sample preparation for proteomics studies overcomes a major bottleneck in this fast-growing technique within the molecular life sciences By addressing the topic from three different angles sample method and aim of the study this practical reference has something for every proteomics researcher Following an introduction to the field the book looks at sample preparation for specific techniques and applications and finishes with a section on the preparation of sample types For each method described a summary of the pros and cons is given as well as step-by-step protocols adaptable to any specific proteome analysis task

**Sample Preparation in Biological Mass Spectrometry** Alexander R. Ivanov, Alexander V. Lazarev, 2011-06-15 The aim of this book is to provide the researcher with important sample preparation strategies in a wide variety of analyte molecules specimens methods and biological applications requiring mass spectrometric analysis as a detection end point In this volume we have compiled the contributions from several laboratories which are employing mass spectrometry for biological analysis With the latest inventions and introduction of highly sophisticated mass spectrometry equipment sample preparation becomes an extremely important bottleneck of biomedical analysis We have a goal of giving the reader several successful examples of sample preparation development and optimization leading to the success in analytical steps and proper conclusions made at the end of the day This book is structured as a compilation of contributed chapters ranging from protocols to research articles and reviews The main philosophy of this volume is that sample preparation methods have to be optimized and validated for every project for every sample type and for every downstream analytical technique

Procedures in Phlebotomy - E-Book John C. Flynn, 2023-08-12 Featuring concise easy to read coverage Procedures in Phlebotomy 5th Edition provides clear guidelines for performing both basic and special phlebotomy techniques It describes proper procedures for venipuncture special collection procedures and pediatric and geriatric considerations and addresses essential topics such as infection control OSHA guidelines and anatomy and physiology It also discusses professional issues such as interpersonal communication department management total quality and medical legal topics This edition includes enhanced infection control and prevention protocols updated healthcare law coverage expanded review questions and an updated practice test to prepare you for classroom and certification success Step by step illustrated procedures clearly outline essential phlebotomy competencies and techniques Essentials approach focuses on the need to know basics required to practice phlebotomy Case scenarios woven throughout the chapters help you continually apply content to practice Review questions in each chapter test your ability to recall information and apply critical thinking skills answers and rationales are included in the appendices Mock certification exam with 150 multiple choice questions and answers provides valuable practice for the credentialing test Safety Summary focuses on key points to ensure safe practice Competency checklists facilitate peer instructor and self evaluation on clinical procedures progress Key terms are listed at the beginning of each chapter highlighted in the text and defined in a back of book glossary NEW Protocols for enhanced infection control and prevention address COVID 19 and other emerging pathogens UPDATED Healthcare law coverage includes up to date content on the latest clinical guidelines EXPANDED and REVISED Review questions and a practice test help prepare you for classroom and certification success NEW COVID 19 content included throughout where relevant **Tietz Clinical Guide to Laboratory Tests - E-Book** Alan H. B. Wu, 2006-06-08 This new edition of Norbert Tietz's classic handbook presents information on common tests as well as rare and highly specialized tests and procedures including a summary of the utility and merit of each test Biological variables that may affect test results are discussed and a focus is placed on reference ranges diagnostic information clinical interpretation of laboratory data interferences and specimen types New and updated content has been added in all areas with over 100 new tests added Tests are divided into 8 main sections and arranged alphabetically Each test includes necessary information such as test name or disorder and method specimens and special requirements reference ranges chemical interferences and in vivo effects kinetic values diagnostic information factors influencing drug disposition and clinical comments and remarks The most current and relevant tests are included outdated tests have been eliminated Test index with extensive cross references and disease index provide the reader with an easy way to find necessary information Four new sections in key areas Preanalytical Flow Cytometry Pharmacogenomics and Allergy make this edition current and useful New editor Alan Wu who specializes in Clinical Chemistry and Toxicology brings a wealth of experience and expertise to this edition The Molecular Diagnostics section has been greatly expanded due to the increased prevalence of new molecular techniques being used in laboratories References are now found after each test rather than at

the end of each section for easier access      **Hematology - E-Book** Bernadette F. Rodak, Elaine M. Keohane, George A. Fritsma, 2013-12-27 Featuring hundreds of full color photomicrographs Hematology Clinical Principles and Applications prepares you for a job in the clinical lab by exploring the essential aspects of hematology It shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins This book also makes it easy to understand complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics Well known authors Bernadette Rodak George Fritsma and Elaine Keohane cover everything from working in a hematology lab to the parts and functions of the cell to laboratory testing of blood cells and body fluid cells Full color illustrations make it easier to visualize complex concepts and show what you ll encounter in the lab Learning objectives begin each chapter and review questions appear at the end Instructions for lab procedures include sources of possible errors along with comments Case studies provide opportunities to apply hematology concepts to real life scenarios Hematology instruments are described compared and contrasted Coverage of hemostasis and thrombosis includes the development and function of platelets the newest theories of normal coagulation and clear discussions of platelet abnormalities and disorders of coagulation A bulleted summary of important content appears at the end of every chapter A glossary of key terms makes it easy to find and learn definitions Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference Respected editors Bernadette Rodak George Fritsma and Elaine Keohane are well known in the hematology clinical laboratory science world Student resources on the companion Evolve website include the glossary weblinks and content updates New content is added on basic cell biology and etiology of leukocyte neoplasias Updated Molecular Diagnostics chapter keeps you current on techniques being used in the lab Simplified hemostasis material ensures that you can understand this complex and important subject Coverage of morphologic alteration of monocytes macrophages is condensed into a table as the disorders in this grouping are more of a biochemical nature with minimal hematologic evidence      **Phlebotomy Essentials, Enhanced Edition** Ruth E. McCall, 2020-06-23 Phlebotomy

Essentials Enhanced Seventh Edition provides accurate up to date and practical information and instruction in phlebotomy procedures and techniques along with a comprehensive background in phlebotomy theory and principles

*Pre-Examination Procedures in Laboratory Diagnostics* Walter G. Guder, 2015-08-31 The preanalytical phase is an important component of Laboratory medicine and errors arising in this phase affect the validity of laboratory results In this book physicians and clinical staff have access to valuable information about the current preanalytical variables and factors patient preparation sample collection handling and processing before analysis      **Rodak's Hematology** Elaine M. Keohane, Larry Smith, Jeanine M. Walenga, 2015-02-20 Featuring hundreds of full color photomicrographs Rodak's Hematology Clinical Principles and Applications 5th Edition prepares you for a job in the clinical lab by exploring the essential aspects of hematology It shows how to accurately identify cells simplifies hemostasis and thrombosis concepts and

covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins This text also makes it easy to understand complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics Clinical lab experts Elaine Keohane Larry Smith and Jeanine Walenga also cover key topics such as working in a hematology lab the parts and functions of the cell and laboratory testing of blood cells and body fluid cells Instructions for lab procedures include sources of possible errors along with comments Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology instruments are described compared and contrasted UPDATED full color illustrations make it easier to visualize hematology concepts and show what you ll encounter in the lab with images appearing near their mentions in the text so you don t have to flip pages back and forth Hematology hemostasis reference ranges are listed on the inside front and back covers for quick reference A bulleted summary makes it easy to review the important points in every chapter Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end A glossary of key terms makes it easy to find and learn definitions NEW coverage of hematogones in the chapter on pediatric and geriatric hematology helps you identify these cells a skill that is useful in diagnosing some pediatric leukemias UPDATED chapter on molecular diagnostics covers new technology and techniques used in the lab

Clinical Procedures for Medical Assistants - E-Book Kathy Bonewit-West,2022-09-03 Master the foundational concepts and skills necessary to become a successful clinical medical assistant Written using clear and accessible language Clinical Procedures for Medical Assistants 11th Edition guides you through essential medical assisting clinical procedures such as taking vital signs collecting processing and testing laboratory specimens preparing patients for examinations and procedures administering medications and assisting with office surgeries This edition is thoroughly updated throughout to align with 2022 medical assisting competencies and includes a new art program plus updated coverage of the medical record nutritional guidelines OSHA standards for infection control and prevention emergency preparedness and the latest medical assisting clinical guidelines More than 90 procedures help you learn key medical assisting skills with step by step instructions and clear illustrations Learning features throughout focus on case based critical thinking patient education legal issues practice tips and documentation exercises and a full complement of online resources provides practice for classroom and board exams EHR documentation exercises video procedures with evaluation questions and a variety of interactive exercises to reinforce comprehension and content mastery This thorough text ensures you have the clinical skills needed to succeed in today s fast paced medical office Consistent meticulous coverage ensures alignment of all content throughout the text on the Evolve companion website and in the study guide More than 90 illustrated procedures offer step by step guidance with many featuring accompanying online videos Learning features focus on case based critical thinking patient education legal issues practice tips and documentation examples Student resources on Evolve include video procedures with evaluation quizzes case based quizzes SimChart for the Medical Office documentation exercises sample

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Essentials Of Medical Laboratory Practice Constance L Lieseke, Elizabeth A Zeibig, 2012-01-31 Inside you ll find a wealth of information on important laboratory terminology and the procedures you ll need to perform to become an effective member of a physician s office team Coverage of the advanced procedures performed outside of the physician s office explains what happens to the samples you send out There s also information on CLIA and other government regulations and how they affect each procedure *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

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the type of tube to use for blood collection of common tests Review questions at the end of each chapter reinforce your understanding and provide a self assessment tool A glossary provides a quick reference to definitions for all of the book's terms A companion Evolve website enhances learning with interactive quizzes and WebLinks for further reading and research NEW content includes a new chapter on medical terminology and also addresses patient quality issues geriatric considerations and point of care tests Case studies with critical thinking questions allow you to apply chapter content to real life scenarios Lists of key terms identify new terminology Learning objectives begin each chapter setting measurable outcomes you will achieve Spanish phrases related to phlebotomy are included in the appendix for quick reference

**Tietz Textbook of Laboratory Medicine - E-Book** Nader Rifai, 2022-02-03 Use THE definitive reference for laboratory medicine and clinical pathology Tietz Textbook of Laboratory Medicine 7th Edition provides the guidance necessary to select perform and evaluate the results of new and established laboratory tests Comprehensive coverage includes the latest advances in topics such as clinical chemistry genetic metabolic disorders molecular diagnostics hematology and coagulation clinical microbiology transfusion medicine and clinical immunology From a team of expert contributors led by Nader Rifai this reference includes access to wide ranging online resources on Expert Consult featuring the comprehensive product with fully searchable text regular content updates animations podcasts over 1300 clinical case studies lecture series and more Authoritative current content helps you perform tests in a cost effective timely and efficient manner provides expertise in managing clinical laboratory needs and shows how to be responsive to an ever changing environment Current guidelines help you select perform and evaluate the results of new and established laboratory tests Expert internationally recognized chapter authors present guidelines representing different practices and points of view Analytical criteria focus on the medical usefulness of laboratory procedures Use of standard and international units of measure makes this text appropriate for any user anywhere in the world Elsevier eBooks provides the entire text as a fully searchable eBook and includes animations podcasts more than 1300 clinical case studies over 2500 multiple choice questions a lecture series and more all included with print purchase NEW 19 additional chapters highlight various specialties throughout laboratory medicine NEW Updated peer reviewed content provides the most current information possible NEW The largest ever compilation of clinical cases in laboratory medicine is included with print purchase on Elsevier eBooks NEW Over 100 adaptive learning courses included with print purchase on Elsevier eBooks offer the opportunity for personalized education

Phillips' Manual of I.V. Therapeutics Lisa Gorski, 2022-10-28 The manual of choice perfect for class clinical and practice The perfect resource for any setting where infusion therapy skills are required Its popular self paced approach makes it ideal for classroom and clinical settings as it progresses from the basics to advanced techniques while incorporating theory into clinical application A focus on evidence based practice in a streamlined format continues to make this the manual of choice in a rapidly advancing field Thorough comprehensive manual on IV therapeutics Gorski the author is considered the final word in all matters of IV

therapeutics A great go to guide for any nurse involved with infusions Andrea Online Reviewer New Updated Incorporates the 2021 Infusion Therapy Standards of Practice published by the Infusion Nurses Society INS new and revised guidelines from the Centers for Disease Control CDC and World Health Organization WHO as well as the latest guidelines from the Association for the Advancement of Blood Biotherapies AABB and the American Society of Parenteral and Enteral Nutrition ASPEN New Chapter An Introduction to Biologic Infusion Therapies Updated Follows the INS Core Curriculum for certification Updated Uses current literature to support evidence based practice Updated Presents procedures and rationales as well as technology that reflect practice today Presents Thinking Critically boxes a case study feature Integrates pediatric and geriatric content throughout Offers a wealth of additional resources for students online at FADavis.com Features well organized pedagogical tools including Learning Objectives Nursing Fast Facts Age related and Cultural Considerations Nursing Plans of Care Home Care Issues Patient Education Key Points and Review Questions Makes must know information easy to find with icons for key points of theory nursing fast facts INS standards of practice relevant studies in evidence based practice nursing points of care home care issues patient education and a media link to the online tools and resources Presents detailed step by step procedures for subcutaneous infusion of pain medication peripherally inserted catheters PICCs epidural pain medication administration and patient controlled analgesic therapy Includes competency skill checklists for evaluating procedures Examines delivery of IV therapy in the home setting Highlights critical content in Nursing Fast Fact boxes Spotlights assessment and intervention guidelines in Nursing Points of Care boxes Provides competency criteria for hospital policy and procedure development required by The Joint Commission      **Clinical Laboratory Reference** ,2007 Laboratory products and services currently available in the United States Product information section arranged alphabetically by companies Entries include description and ordering information Indexes by manufactures brand names and test equipment and services Product photograph section      **Organelle Proteomics** Delphine Pflieger,Jean Rossier,2008-02-19 This is the first book to examine organelle proteomics in depth It begins by introducing the different analytical strategies developed and successfully utilized to study organelle proteomes and detailing the use of multidimensional liquid chromatography coupled to tandem mass spectrometry for peptide sample analysis Detailed protocols are provided and a section is devoted to methods enabling a global estimate of the reliability of the protein list assigned to an organelle

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