

Draw order

Tube type	Additives and the mechanism of action	Inversions at blood draw	Important application note
Blood culture bottle/tube 	<ul style="list-style-type: none"> May contain a growth medium to enhance microbial growth and sodium polyanethole sulfonate to prevent bacteria killing by inhibiting the activation of complement function. 	8 to 10	<ul style="list-style-type: none"> Used for bacteria or fungi detection in a patient's blood. Extreme care should be taken to minimize contamination from the environment. Typically two sets of blood cultures are collected for adult patients, with one for aerobic (drawn first) and one for anaerobic.
Coagulation tube 	<ul style="list-style-type: none"> Contain sodium citrate, which inhibits coagulation through chelating free calcium ions (Factor V). Sodium citrate binds calcium with fixed stoichiometry, and adding more calcium can reverse its anticoagulation effect. 	3 to 4	<ul style="list-style-type: none"> Primarily used for coagulation studies. Tubes must be completely filled to ensure proper blood-to-anticoagulant ratio. Several AD biomarkers, such as Aβ peptides, NFL, GFAP and t-tau, are lower in citrate plasma compared to other plasma samples.
Serum tube 	<ul style="list-style-type: none"> Contain glass or silica particles to activate clotting through Factor XIII. May contain gel separator (gold/tiger top) to prevent contamination of cellular components by adding a diffusion barrier between serum and coagulated blood. 	Glass: 0 Plastic: 5	<ul style="list-style-type: none"> Widely used in the hospital system for testings on clinical chemistry, immunology, and serology. Aβ peptides, t-tau and several pTau species are present in lower level in serum compared to plasma. Similar diagnostic accuracy for pTau181, pTau231 and t-tau in serum and plasma.
Heparin tube 	<ul style="list-style-type: none"> Contain sodium or lithium heparin which inhibit coagulation by inactivating thrombin and factor Xa. 	8 to 10	<ul style="list-style-type: none"> Widely used in clinical biochemical examination. Some evidence suggest higher AD biomarker levels in heparin plasma compared to other specimens.
EDTA tube 	<ul style="list-style-type: none"> Spray-coated with EDTA, which inhibits coagulation through chelating calcium ions. The chelating of calcium by EDTA is irreversible. 	8 to 10	<ul style="list-style-type: none"> More stable due to inhibition of some enzymatic activities. Preferred specimen for hematology testing. High EDTA concentrations are hypertonic and may shrink the red blood cells. Most used specimens in blood AD biomarker research.
Glycolytic inhibitor tube 	<ul style="list-style-type: none"> Contain sodium fluoride to inhibit glycolysis. Citrate, oxalate and EDTA may be added to inhibit coagulation and other metabolic processes. 	8 to 10	<ul style="list-style-type: none"> Used for determining glucose and lactate levels.

Collection Tube Recommendations

Katrin Zwirglmaier

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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 information possible.

Laboratory Hematology Practice Kandice Kottke-Marchant, Bruce Davis, 2012-05-07 Expertly edited and endorsed by the International Society for Laboratory Hematology this is the newest international textbook on all aspects of laboratory hematology. Covering both traditional and cutting edge hematology laboratory technology this book emphasizes international recommendations for testing practices. Illustrative case studies on how technology can be used in patient diagnosis are included. Laboratory Hematology Practice is an invaluable resource for all those working in the field.

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

WHO guidelines for screening and treatment of precancerous lesions for cervical cancer prevention World Health Organization,2021-07-06 This WHO and HRP guideline is designed to help countries make faster progress more equitably on the screening and treatment of cervical cancer It includes some important shifts in WHO's recommended approaches to cervical screening and includes a total of 23 recommendations and 7 good practice statements Among the 23 recommendations 6 are identical for both the general population of women and for women living with HIV and 12 are different and specific for each population Among the 7 good practice statements 3 are identical for both the general population of women and for women living with HIV and 2 are different and specific for each population

Federal Register ,1979-09 **Concept-Based Clinical Nursing Skills - E-Book** Loren Nell Melton Stein,Connie J. Hollen,2023-02-27 Selected for Doody's Core Titles 2024 in Fundamentals Concept Based Clinical Nursing Skills Fundamental to Advanced Competencies 2nd Edition covers more than 250 nursing skills in an innovative concept based format Unlike any other text Stein and Hollen incorporate an overarching framework of seven critical concepts accuracy, person centered care, infection control, safety, communication, evaluation, and health maintenance to drive home the importance of these key themes in performing nursing skills and developing nursing

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Suggested Recommendations for the Fumigation of Grain in the ASEAN Region: Principles and general practice ,1989 *Procedures recommended for the study of bacteria* American Public Health Association,1898 **A**

Manual of Bacteriology Herbert Upham Williams,1908 **Collected Papers from the Research Laboratory** Parke, Davis & Company. Research Laboratory,1914 **Collected Papers from the Research Laboratory, Parke, Davis & Co., Detroit, Mich** Parke, Davis & Company. Research Laboratory,1914 Collected Papers from the Research Laboratory

Parke, Davis and co., Detroit, Mich,1914 **Tietz Clinical Guide to Laboratory Tests** Alan H. B. Wu,2006 Dr Tietz is retiring his involvement with this publication and his replacement is Dr Richard McPherson Chairman of the Department of Pathology at the Medical College of Virginia He is very well respected serves on the board of CAP and runs one of the largest university reference libraries in the nation the fourth edition maintains the same overall organization and content that has been so useful to clinical users in the past three editions **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 *Collected papers from the research laboratory, Parke, Davis & Co., Detroit Michigan v. 2*

Parke, Davis & Company,1914 **API Recommended Practice for Core-analysis Procedure** American Petroleum Institute,American Petroleum Institute. Division of Production,1960 Collected papers from the research laboratory, Parke, Davis & Co., Detroit Michigan v. 3 Parke, Davis & Company,1915 COLLECTED PAPERS THE RESEARCH LABORATORY PARKE, DAVIS & CO.,1914 **Collected Studies from the Research Laboratory** New York (N.Y.). Department of Health. Research laboratory,1926

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Table of Contents Collection Tube Recommendations

1. Understanding the eBook Collection Tube Recommendations
 - The Rise of Digital Reading Collection Tube Recommendations
 - Advantages of eBooks Over Traditional Books
2. Identifying Collection Tube Recommendations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Collection Tube Recommendations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Collection Tube Recommendations
 - Personalized Recommendations
 - Collection Tube Recommendations User Reviews and Ratings
 - Collection Tube Recommendations and Bestseller Lists

5. Accessing Collection Tube Recommendations Free and Paid eBooks
 - Collection Tube Recommendations Public Domain eBooks
 - Collection Tube Recommendations eBook Subscription Services
 - Collection Tube Recommendations Budget-Friendly Options
6. Navigating Collection Tube Recommendations eBook Formats
 - ePUB, PDF, MOBI, and More
 - Collection Tube Recommendations Compatibility with Devices
 - Collection Tube Recommendations Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Collection Tube Recommendations
 - Highlighting and Note-Taking Collection Tube Recommendations
 - Interactive Elements Collection Tube Recommendations
8. Staying Engaged with Collection Tube Recommendations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Collection Tube Recommendations
9. Balancing eBooks and Physical Books Collection Tube Recommendations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Collection Tube Recommendations
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Collection Tube Recommendations
 - Setting Reading Goals Collection Tube Recommendations
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Collection Tube Recommendations
 - Fact-Checking eBook Content of Collection Tube Recommendations
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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