

# **BD Vacutainer® Venous Blood Collection Tube Guide**



Helping all people  
live healthy lives.

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.

BD Vacutainer® Tubes with BD Hemogard® Closure	BD Vacutainer® Tubes with Conventional Stopper	Additive	Inversions at Blood Collection*	Laboratory Use	Other Lab's Choice/Comments/Remarks
 Gold	 Red/Gray	▪ Clot activator and gel for serum separation	5	For serum determinations in chemistry. May be used for blood donor screening and diagnostic testing of serum for infectious disease. Tube inversions ensure mixing of clot activator with blood. Blood clotting timer: 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 timer: 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 timer: 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 timer: 5 minutes.	
 Royal Blue		▪ Clot activator (plastic, serum) ▪ K <sub>2</sub> EDTA (plastic)	8	For trace-element, toxicology, and hematology laboratory determinations. Special stopper for dilution provides low levels of trace elements (see package insert). Tube inversions ensure mixing of either clot activator or anticoagulant (K <sub>2</sub> EDTA) with blood.	
 Green	 Green	▪ Sodium heparin ▪ Lithium heparin	8	For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.	
 Grey	 Gray	▪ Potassium oxalate/ sodium fluoride ▪ Sodium Bicarbonate/K <sub>2</sub> EDTA ▪ Sodium fluoride (serum tubes)	8	For glucose determinations. Oxalate and EDTA anticoagulants will give plasma samples. Sodium fluoride is an antiaggregatory agent. Tube inversions ensure proper mixing of additive with blood.	
 Yellow	 Yellow	▪ K <sub>2</sub> EDTA (plastic)	8	For lead determinations. This tube is certified to contain less than 100 $\mu$ g/m <sup>2</sup> ppm lead. Tube inversions prevent clotting.	
		▪ Sodium, isopropenyl sulfonate (SPS) ▪ Acid citrate dextrose additives (ACD) <b>Solution A</b> - 22.0 g/L sodium citrate, 8.0 g/L citric acid, 24.5 g/L dextrose <b>Solution B</b> - 12.3 g/L sodium citrate, 4.6 g/L citric acid, 14.7 g/L dextrose	8	SAPS 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.	
		▪ K <sub>2</sub> EDTA and gel for plasma separation	8	Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.	
 White					
 Pink	 Pink	▪ Spray-coated K <sub>2</sub> EDTA (plastic)	8	For multiple blood hematology determinations. May be used for routine hematology 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 (0.105 M (3.2% w/v) plastic) ▪ Citrate, theophylline, adenine, dipyridamole (CTAD)	3-6	For coagulation determinations. CTAD for thrombin time, prothrombin time, and partial thromboplastin time determinations. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.	
 Clear	 Clear	▪ None (plastic)	0	For use as a discard tube or secondary specimen tube.	
 Red/ Light Gray	 Red/ Light Gray				

Note: BD Vacutainer® tubes for pediatric and partial draw applications can be found on our website.

**BD Diagnostics**  
Pneumocystis Systems  
1 Becton Drive  
Princeton Lakes, NJ 08541 USA

BID-Global Technical Services: 1.800.631.0274  
BID-Customer Services: 1.888.237.2762  
[www.bid.com/executive](http://www.bid.com/executive)

# Ultimate Guide Tube Recommendations

**Andrew Wilson**

## **Ultimate Guide Tube Recommendations:**

**Complete Guide to Preventive and Predictive Maintenance** Joel Levitt,2003 Best practices mistakes victories and essential steps for success    **The Complete Guide to Tyre Repairing** ,1919    **Black & Decker The Complete Guide to Plumbing Updated 7th Edition** Editors of Cool Springs Press,2019-01-01 BLACK DECKER The Complete Guide to Plumbing Updated 7th Edition is the most comprehensive up to date book on achievable home plumbing projects for DIYers of all skill levels From fixing a toilet to installing and plumbing a vanity sink or curbless shower BLACK DECKER The Complete Guide to Plumbing Updated 7th Edition has the answer to any home plumbing problem you're likely to have Packed with clear color photos and easy to understand descriptions the basics of home plumbing systems are clearly explained and all of the most popular plumbing projects are shown with clear color step by step photos This new edition has been thoroughly updated to ensure that all information conforms to the most recent codes including the 2018 Uniform Plumbing Code and the 2018 International Residential Code Projects include Plumbing and tiling a curbless shower Installing a jetted spa Replacing a toilet Installing a dishwasher and garbage disposer Repairing faucets Accessibility projects that meet Universal Design standards Flooring Wallcoverings Lighting Ventilation Bathroom cabinetry Get those home projects you've been dreaming about accomplished and done right with a little help from the experts at BLACK DECKER    **Best-Ever Backyard Birding Tips** Deborah L. Martin,2008-01-01 A guide to backyard birding that covers seeds feeders plants landscape features big eating birds hosting hummingbirds bird behavior and other related topics    **"The" Modern Physician, Being a Complete Guide to the Attainment and Preservation of Health** Andrew Wilson,1910    **Fodor's The Complete Guide to Caribbean Cruises** Linda Coffman,2009-10-06 Detailed and timely information on accommodations restaurants and local attractions highlight these updated travel guides which feature all new covers a dramatic visual design symbols to indicate budget options must see ratings multi day itineraries Smart Travel Tips helpful bulleted maps tips on transportation guidelines for shopping excursions and other valuable features Original    *Fodor's the Complete Guide to Caribbean Cruises* Fodor's Travel Publications, Inc. Staff,Fodor's,Linda Coffman,2011-10-04 Fodor's travel intelligence Comprehensive guide to the ships and ports Cover    **Black and Decker The Complete Guide to Finishing Basements and Garages Updated 3rd Edition** Editors of Cool Springs Press,Chris Peterson,2024-08-13 Finish your basement or deck out your garage with up to date advice and photo illustrated step by step instructions from a trusted brand In BLACK DECKER The Complete Guide to Finishing Basements and Garages 3rd Edition you'll find a deep dive into various projects that will help you make the most of your home This new edition includes A new gallery of basement designs Sample floor plans for basements How to create your own full service home workspace Newly integrated section and projects for the garage Heal cracks in your foundation wall pest proof your basement install a mini split system and so much more With this BLACK DECKER title you'll find information on Basement designs and floor plans Want to finish your basement but don't know where to start Find guidance and all new

galleries of inspiration for finishes Installation New in this edition you can learn how to install a prefab straight run staircase and use epoxy or lay rubber floor tiling to finish cement floors You ll also find updated sections on everything from creating office spaces to media rooms The ground level basement More interested in creating a workshop in your garage Well now you can With this specialty section and newly integrated projects and tips you can learn the best ways to get the garage you ve always wanted Whether you re already underway creating a new addition to your house or looking for a guide to get your creative juices flowing this book is a great fit **Stereophile**, 1995 The Nature Photographer's Complete Guide to Professional Field Techniques John Shaw, 1984 From one of America s most gifted photographers comes this field tested handbook Stunning color photographs and a well written text cover everything photographers need to know **The Simon and Schuster Complete Guide to Home Repair and Maintenance** Bernard Gladstone, 1987-05 Many topics are covered including carpentry plumbing furniture repair and electrical systems *Recommended Reference Books for Small and Medium-Sized Libraries and Media Centers 2000* Bohdan S. Wyna, 2000-04-22 Published with reference work and collection development in mind this text will allow librarians to locate the best works in a given field consult other published reviews and compare price scope and coverage of reference books in a particular subject area *United Services and Empire Review*, 1924 Hi-fi News & Record Review, 1997 **English Mechanic and World of Science**, 1897 *The Complete Guide to Four Season Home Maintenance* David Heberle, Dave Heberle, Richard M. Scutella, 1993 Packed with detailed maintenance tips and procedures to help homeowners minimize costly repairs and replacements this book covers a variety of problems from leaking foundations to furnace breakdowns to backed up septic systems and teaches homeowners how to establish the kind of preventive maintenance routines that will keep most problems from occurring in the first place

Homeowner's Complete Guide to Plumbing Merle Henkenius, 1989 **Bicycling Magazine's Complete Guide to Bicycle Maintenance and Repair** Jim Langley, 1999-06-19 Fix a broken chain with a shoelace Improve shifter performance with dishwashing detergent Inside are thousands of tips to repair and maintain any road or mountain bike Whether it s the latest model or a classic that has thousands of miles on it beginners or experienced riders can keep their bikes on the road longer and spend less time in the repair shop With this ultimate repair manual Build a dream bike workshop with complete plans and comprehensive tool lists Wow ride partners with tricks for fixing breakdowns with a minimum of tools Roll wheel hoops and save time and money Dial in suspension shocks for comfortable rides Discover top tricks from professional mechanics Expertly work on any style of brakes including the V Brake Overhaul freewheels and cassettes for peak performance Service clipless pedals for maximum safety What s new in the expanded and revised fourth edition Updated text that covers the latest models and parts Over 160 new photos so you get repairs right the first time Clearer better designed captions so you can read as you repair Troubleshooting sections to quickly identify and correct common problems Web sites and phone numbers of bicycle and parts manufacturers An updated glossary with the latest in bike lingo **A**

Comprehensive Guide to Intellectual and Developmental Disabilities Ivan Brown,Maire Ede Percy,2007 Learning objectives instructive case stories stimulating questions for reflection and key Internet resources help make this a user friendly textbook one that students will refer to for years to come With this thorough compendium of information insights and answers future educators social workers researchers and clinicians will know what to do and how to do it once they start their work with people with disabilities the editors and the majority of the contributors are the top Canadian specialists in the disability field Ivan Brown Ph D is Associate Professor and Manager Centre for Excellence for Child Welfare Faculty of Social Work at University of Toronto his co editor Maire Percy Ph D is Director Neurogenetics Lab and Professor Emeritus of Physiology and Ob Gyn at University of Toronto      **Medical Review of Reviews** ,1903 Index medicus in v 1 30 1895 1924

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## **Table of Contents Ultimate Guide Tube Recommendations**

1. Understanding the eBook Ultimate Guide Tube Recommendations
  - The Rise of Digital Reading Ultimate Guide Tube Recommendations
  - Advantages of eBooks Over Traditional Books
2. Identifying Ultimate Guide 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 Ultimate Guide Tube Recommendations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ultimate Guide Tube Recommendations
  - Personalized Recommendations
  - Ultimate Guide Tube Recommendations User Reviews and Ratings
  - Ultimate Guide Tube Recommendations and Bestseller Lists
5. Accessing Ultimate Guide Tube Recommendations Free and Paid eBooks
  - Ultimate Guide Tube Recommendations Public Domain eBooks

- Ultimate Guide Tube Recommendations eBook Subscription Services
- Ultimate Guide Tube Recommendations Budget-Friendly Options

6. Navigating Ultimate Guide Tube Recommendations eBook Formats

- ePub, PDF, MOBI, and More
- Ultimate Guide Tube Recommendations Compatibility with Devices
- Ultimate Guide Tube Recommendations Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ultimate Guide Tube Recommendations
- Highlighting and Note-Taking Ultimate Guide Tube Recommendations
- Interactive Elements Ultimate Guide Tube Recommendations

8. Staying Engaged with Ultimate Guide Tube Recommendations

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ultimate Guide Tube Recommendations

9. Balancing eBooks and Physical Books Ultimate Guide Tube Recommendations

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ultimate Guide Tube Recommendations

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ultimate Guide Tube Recommendations

- Setting Reading Goals Ultimate Guide Tube Recommendations
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ultimate Guide Tube Recommendations

- Fact-Checking eBook Content of Ultimate Guide 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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Lesson ... Holt Elements of Literature: PowerNotes: Lesson Presentations with Motivational Videos Third Course. ISBN-13: 978-0030963223, ISBN-10: 0030963222. 'Holt Elements Of Literature, Third Course - One-Stop ... Elements of Literature: One Stop Planner with Test Generator and State Specific Resources CDROM Grade 9 Third Course. by HOLT, RINEHART AND WINSTON. Editions of Elements of Literature: Third Course by Holt ... Editions for Elements of Literature: Third Course: 0030672813 (Hardcover published in 2002), (Hardcover published in 2007), (CD-ROM), (Unknown Binding), ... Holt Elements of Literature Third Course Power Notes (CD ... Holt Elements of Literature Third Course Power Notes (CD-Rom) Brand New Sealed ; Item number. 394381889632 ; Type. Audiobook ; Format. Audio CD ; Accurate ... Elements of literature. Third course [grade 9] Holt audio tutor (CD's). Grammar notes: effective grammar for writing (DVD-ROM). Power Notes: lesson Presentations with motivational video (DVD-ROM). Writing ... Holt elements of literature : third course - WorldCat Holt elements of literature : third course | WorldCat ... CD-ROM (one-stop planner) contents: Disc 1 (Collections 1-6). Disc 2 (Collections 7-12). Notes:.. Holt Adapted Reader Audio CD Library (Elements ... Holt Adapted Reader Audio CD Library (Elements of Literature Third Course) by Holt, Rinehart, And Winston, Inc ... Brand New CD-ROM! Factory Sealed. Seller ... Elements of literature. Second course : Free Download ... Feb 11, 2022 — CD-ROMs included are: PowerNotes for Literature and Reading, Sedond course and Holt Interactive Spelling System requirements for PowerNotes CD- ... Elements of Literature - Third Course (Holt Reader ... Elements of Literature - Third Course (Holt Reader, Student Edition) by HOLT, RINEHART AND WINSTON - ISBN 10: 0030683939 - ISBN 13: 9780030683930 - HOLT, ... Business 111: Principles of Supervision Final Exam Test and improve your knowledge of Business 111: Principles of Supervision with fun multiple choice exams you can take online with Study.com. Supervisory Management Quizzes, Questions & Answers Are you ready to test your knowledge and explore the essential skills and concepts of effective supervision? In this quiz, we'll delve into the world of ... Free Supervisory Situational Judgment Test Practice Guide ... On this page, you will find free Supervisory Situational Judgment Test questions along with general test-related information. Supervisor Assessment Test Preparation and Study Guides You will face questions that measure your comprehension of the principles, behaviors and practices of successful supervisors. The focus is on leadership. In the ... Supervision (Test Questions & Answers) Flashcards Study with Quizlet and memorize flashcards containing terms like What refers to defining goals, establishing strategies to achieve them and designing ways ... Supervisor Training Questions Supervisor Training Questions. 1. Effective supervisors a ... By answering these test questions, I confirm that I have completed the Supervision Training. Preparing for the Supervisor 3 Exam: Check Your ... This is an optional self-assessment tool to help you prepare for the Supervisor 3 exam. It does not guarantee success or failure of the Civil Service exam, ... Test exam Safety for Operational Supervisors This examination is comprised of 40 multiple-choice questions. Each question is followed by three possible answers, of which only one is correct. First Line Supervisor Test to Assess and Hire Supervisor This first line supervisor test may contain MCQs (Multiple Choice Questions)

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