























# BD Vacutainer® Venous Blood Collection Tube Guide

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	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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> EDTA (glass) • Spray-coated K <sub>2</sub> EDTA (plastic)	8 8	K <sub>2</sub> EDTA and K <sub>3</sub> EDTA for whole blood hematology determinations. K <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 (CITAD)			
 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](http://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 immunohematology testing in general; therefore, users must evaluate the use of these tubes for immunohematology specimen collections and process storage conditions.

# Ultimate Guide Tube Recommendations

**AN Whitehead**



## 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. Wynar, 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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web may 17 2021 this is the mistral of southern france the infamous wind of provence one of many as a region of rolling hills and valleys provence is always windy one of the 32 winds each named and recognized as an anticipated visitor is blowing at any time and from any imaginable direction

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web micromaster 430 7.5 kW 90 kW operating instructions issue 05 02 user documentation regulations of safety code vbg 4 0 must be observed in particular 8 wherever faults occurring in the control equipment can lead to substantial

**siemens drive fault codes eltra trade** - May 22 2022

web jul 21 2022 if a fault occurs the display of the siemens micromaster 440 inverter will show an error code below are all siemens micromaster 440 manual fault codes f0001 overcurrent f0002 overvoltage

**430 opi en 1006 siemens** - Aug 05 2023

web micromaster 430 operating instructions 8 6se6400 5ae00 0bp0 notice ¾ keep these operating instructions within easy reach of the equipment and make them available to all users ¾ whenever measuring or testing has to be performed on live equipment the regulations of safety code vbg 4 0 must be observed in particular 8

siemens micro master 440 vfd drive fault code cause also youtube - Apr 20 2022

web aug 17 2021 siemens micro master 440 vfd drive fault code and cause also remedy part 1 in this part we will see this fault code s f0001 f0002 f0003 f0004 f0005 f0011 f0012 f0015 f0020

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web on micromaster 4 there is only one fault code f0070 for profibus communications failure if the fault is due to failure of communication with the profibus master the led on the profibus module goes orange if it is due to mm to profibus module comes failure it goes red

*micromaster 430 siemens* - Sep 06 2023

web micromaster 430 parameter list 6se6400 5af00 0bp0 7 1 parameters 1 1 introduction to micromaster 430 system parameters the layout of the parameter description is as follows 1 par number 2 parameter name 9 min index 3 cstat 5 datatype 7 unit 10 def 4 p group 6 active 8 quick comm 11 max 13 description 1 parameter number

**micromaster 440 fault codes eltra trade** - Feb 16 2022

web oct 27 2023 if your device has ceased to function correctly then you need to look at the display where you will see micromaster 440 fault codes which we have briefly described below f0001 overcurrent f0002 overvoltage f0003 undervoltage f0004 converter overheating f0005 i2t exceeded f0011 engine overheating by i2t

*430 com en 0805 siemens* - Jan 30 2023

web micromaster 430 2 operating instructions compact warnings cautions and notes the following warnings cautions and notes are provided for your safety and as a means of preventing damage to the product or components in the machines connected specific warnings cautions and notes that apply to particular

micromaster 440 param list and fault codes mro electric blog - Mar 20 2022



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*f070 fault code 29193 industry support siemens* - Jun 22 2022

web 2 days ago hi can any one advise on a problem i have with micromaster 430 the problem is a fault code f070 profibus fault we have replaced the profibus micromaster module and replaced the profibus plug

**siemens micromaster 430 operating instructions manual** - May 02 2023

web cb configura tion error micromaster 430 operating instructions 6se6400 5ae00 0bp0 page 88 index 2 parameter settings for output do not correspond to dac type no load is applied to the a0922 inverter no load as a result some functions may applied to not work as under normal load inverter conditions

mm430 fault code f0023 70228 industry support siemens - Feb 28 2023

web nov 12 2020 when start a fan motor in 2 3second the frequency shown f0023 and motor stop i have checked the motor cable is ok tried doing quick commissioning still the same no improve tried set the motor identification by setting the p1910 1 still same problem

**micromaster 440 siemens** - Aug 25 2022

web wherever faults occurring in the control equipment can lead to substantial material damage or even grievous bodily injury i e potentially dangerous faults additional external precautions must be taken or facilities provided to ensure or enforce safe operation even when a fault occurs e g independent

*micromaster 440 parameter list and fault codes mro electric* - Oct 07 2023

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5 faults and alarms niconcontrols - Sep 25 2022

web to reset the fault code one of three methods listed below can be used cycle the power to the drive press the button on the bop or aop via digital input 3 default setting fault messages are stored in parameter r0947 under their code number e g f0003 3 the associated error value is found in parameter r0949

[siemens micromaster 430 parameter list inverter drive](#) - Apr 01 2023

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parameters the layout of the parameter description is as follows 1 par number 2 parameter name 9 min index 3 cstat 5

datatype 7 unit 10 def 4 p group 6 active 8 quick comm 11 max 13 description 1 parameter number

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web oct 27 2001 micromaster 440 parameter list 6se6400 5bb00 0bp0 7 1 parameters 1 1 introduction to micromaster 440

system parameters the layout of the parameter description is as follows 1 par number 2 parameter name 9 min index 3 cstat

5 datatype 7 unit 10 def 4 p group 6 active 8 quick comm 11 max 13 description 1 parameter

**430 opi en 0705 tecdriver** - Dec 29 2022

web micromaster 430 documentation getting started guide is for quick commissioning with sdp and bop 2 operating

instructions gives information about features of the micromaster 430 installation commissioning control modes system

parameter structure troubleshooting specifications and available options of the micromaster