

# 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.



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)<br>• Clot activator, Silicone coated (plastic)                                                                                                                                                                                      | 0<br>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 stat 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 stat serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.                                                                                                                                       |                                |
|  Royal Blue   |                                                                                                         | • Clot activator (plastic serum)<br>• K <sub>2</sub> EDTA (plastic)                                                                                                                                                                                           | 8<br>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<br>• Lithium heparin                                                                                                                                                                                                                         | 8<br>8                          | For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.                                                                                                                                              |                                |
|  Gray         |  Gray                  | • Potassium oxalate/sodium fluoride<br>• Sodium fluoride/EDTA<br>• Sodium fluoride (serum tube)                                                                                                                                                               | 8<br>8<br>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 polyanethane sulfonate (SPS)<br>• Acid citrate dextrose additives (ACD):<br>Solution A - 22.0 g/L, trisodium citrate, 8.0 g/L, citric acid, 24.5 g/L, dextrose<br>Solution B - 13.2 g/L, trisodium citrate, 4.8 g/L, citric acid, 14.7 g/L, dextrose | 8<br>8<br>8                     | SPS for blood culture specimen collections in microbiology.<br>ACD for use in blood bank studies, HLA phenotyping, and DNA and paternity testing.<br>Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.                                           |                                |
|  Lavender     |  Lavender              | • Liquid K <sub>2</sub> EDTA (glass)<br>• Spray-coated K <sub>2</sub> EDTA (plastic)                                                                                                                                                                          | 8<br>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<br>0.109 M (3.2%) plastic                                                                                                                                                                                      | 3-4<br>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.

BD Diagnostics  
Pharmaceutical Systems  
1 Beckton Drive  
Franklin Lakes, NJ 07417 USA

BD Global Technical Services: 1.800.631.2174  
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[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

**LL Leslie**



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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

## Enjoying the Tune of Term: An Psychological Symphony within **Ultimate Guide Tube Recommendations**

In some sort of used by screens and the ceaseless chatter of immediate communication, the melodic splendor and mental symphony produced by the prepared word usually disappear in to the backdrop, eclipsed by the constant noise and disruptions that permeate our lives. Nevertheless, located within the pages of **Ultimate Guide Tube Recommendations** a wonderful fictional prize overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts visitors on a mental journey, well unraveling the hidden melodies and profound affect resonating within each carefully constructed phrase. Within the depths of the moving review, we will investigate the book is main harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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