

# BD Vacutainer® Venous Blood Collection Tube Guide



For the full array of BD Vacutainer® Blood Collection Tubes, visit [www.bd.com](http://www.bd.com). Many are available in a variety of sizes and draw volumes. Refer to our website for full descriptions.

| BD Vacutainer® Tubes with BD Hemogard™ Closure | BD Vacutainer® Tubes with Conventional Stopper | Additive                                                                                                                                                                                                                                                                   | Inversions of Blood Collection* | Laboratory use                                                                                                                                                                                                                                                             | Laboratory notes |
|------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Red                                            | Red                                            | • Silicone-coated (glass)<br>• Clot activator - Silicone-coated (plastic)                                                                                                                                                                                                  | 2<br>5                          | For chemistry determinations in serum. 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.                                |                  |
| Gold                                           | Red/Gray                                       | • Clot activator and gel for serum separation                                                                                                                                                                                                                              | 5                               | For chemistry determinations in serum. 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 chemistry determinations in serum. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.                                                                                                                                    |                  |
| Light Green                                    |                                                | • Lithium heparin and gel for plasma separation                                                                                                                                                                                                                            | 8                               | For chemistry determinations in plasma. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.                                                                                                                                           |                  |
| Green                                          | Green                                          | • Sodium heparin<br>• Lithium heparin                                                                                                                                                                                                                                      | 8<br>8                          | For chemistry determinations in plasma. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.                                                                                                                                           |                  |
| Lavender                                       | Translucent 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>2</sub> EDTA for whole blood hematology determinations. K <sub>2</sub> EDTA may be used for routine immunohematology testing.** Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.                       |                  |
| Pink                                           |                                                | • Spray-coated K <sub>2</sub> EDTA (plastic)                                                                                                                                                                                                                               | 8                               | For whole blood hematology determinations. May be used for routine immunohematology testing.** Designed with special cross-match label for patient information required by the AABB. 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.                     |                  |
| Light Blue                                     | Clear                                          | • Buffered sodium citrate 0.109 M (3.2%) plastic                                                                                                                                                                                                                           | 3-4                             | For coagulation determinations. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.                                                                                                                                                              |                  |
| Gray                                           | Gray                                           | • Potassium oxalate/<br>sodium fluoride<br>• Sodium fluoride/Na <sub>2</sub> EDTA<br>• Sodium fluoride (serum tube)                                                                                                                                                        | 8<br>8<br>8                     | For glucose determinations. Oxalate and EDTA are anticoagulants and NaF is an antglycolytic agent. Tube inversions ensure proper mixing of additive with blood.                                                                                                            |                  |
| Royal Blue                                     |                                                | • Clot activator (plastic)<br>• K <sub>2</sub> EDTA (plastic)                                                                                                                                                                                                              | 8<br>8                          | For trace element, toxicology, and nutritional chemistry determinations in serum or plasma. Special stopper formulation provides low levels of trace elements (see package insert). Tube inversions ensure proper mixing of additive with blood.                           |                  |
|                                                | Yellow                                         | • Sodium polyanethanol sulfonate (SPS)<br><br>• Acid citrate dextrose additives (ACD):<br>– Solution A:<br>22.0 g/L sodium citrate,<br>8.0 g/L citric acid,<br>24.5 g/L dextrose<br>– Solution B:<br>13.2 g/L sodium citrate,<br>4.8 g/L citric acid,<br>14.7 g/L dextrose | 8<br><br>8<br>8<br>8            | SPS for blood culture specimen collections in microbiology.<br><br>ACD for use in blood bank studies, and paternity testing.<br><br>Tube inversions ensure mixing of anticoagulant with blood to prevent clotting.                                                         |                  |
| Clear                                          | Red/Light Gray                                 | • No additive (plastic)                                                                                                                                                                                                                                                    | 0                               | For use as a discard tube or secondary specimen tube.                                                                                                                                                                                                                      |                  |

BD Vacutainer® Tubes with a translucent cap are designed to draw less blood as indicated on the tube label. Small-volume, partial-draw tubes fill more slowly than full-draw tubes due to a "breast vacuum".

For additional information refer to the IFU at [www.bd.com](http://www.bd.com).

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\* Invert gently, do not shake.  
\*\* The performance characteristics of these tubes have not been established for infectious disease testing in general therefore, users must validate the use of these tubes for their specific assay-instrument/reagent system combinations and specimen storage conditions.  
\*\*\* The performance characteristics of these tubes have not been established for immunohematology testing in general therefore, users must validate the use of these tubes for their specific assay-instrument/reagent system combinations and specimen storage conditions.

# The A3a32system Guide

**Albert A Gayle**



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