# BD Vacutainer® Venous Blood Collection Tube Guide

For the full array of BD Vacutainer® Blood Collection Tubes, visit 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

<table>
<thead>
<tr>
<th>BD Vacutainer® Tubes with Conventional Stopper</th>
<th>Additive</th>
<th>Inversions at Blood Collection*</th>
<th>Laboratory Use</th>
<th>Your Lab’s Draw Volume/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>Clot activator and gel for serum separation</td>
<td>5</td>
<td>For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious diseases. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 30 minutes.</td>
<td></td>
</tr>
<tr>
<td>Light Green</td>
<td>Lithium heparin and gel for plasma separation</td>
<td>8</td>
<td>For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Silicone coated (glass) Clot activator, Silicone coated (plastic)</td>
<td>0</td>
<td>For serum determinations in chemistry. May be used for routine blood donor screening and diagnostic testing of serum for infectious diseases. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 60 minutes.</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>Thrombin-based clot activator with gel for serum separation</td>
<td>5 to 6</td>
<td>For stat serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>Thrombin-based clot activator</td>
<td>8</td>
<td>For stat serum determinations in chemistry. Tube inversions ensure mixing of clot activator with blood. Blood clotting time: 5 minutes.</td>
<td></td>
</tr>
<tr>
<td>Royal Blue</td>
<td>Clot activator (plastic serum) K2EDTA (plastic)</td>
<td>8</td>
<td>For trace-element, toxicology, and nutritional chemistry determinations. (Special stopper formulation provides levels of trace elements (see package insert). Tube inversions ensure mixing of either clot activator or anticoagulant (EDTA) with blood.</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Sodium heparin Lithium heparin</td>
<td>8</td>
<td>For plasma determinations in chemistry. Tube inversions ensure mixing of anticoagulant (heparin) with blood to prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>Gray</td>
<td>Potassium oxalate/ sodium fluoride Sodium fluorideNa2 EDTA Sodium fluoride (serum tube)</td>
<td>8</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Tan</td>
<td>K2EDTA (plastic)</td>
<td>8</td>
<td>For lead determinations. This tube is certified to contain less than .01 µg/mL(ppm) lead. Tube inversions prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Sodium polyethylened sulfonate (SPS) Acid citrate dextrose additives (ACDI): Solution A - 23.5 g, trisodium citrate, 8.0 g, citric acid, 24.5 g, dextrose Solution B - 13.2 g, trisodium citrate, 4.8 g, citric acid, 14.7 g, dextrose</td>
<td>8</td>
<td>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 additive with blood.</td>
<td></td>
</tr>
<tr>
<td>Lavender</td>
<td>Liquid K2EDTA (glass) Spray-coated K2EDTA (plastic)</td>
<td>8</td>
<td>K2EDTA and K3EDTA for whole blood hematology determinations. K2EDTA may be used for routine immunohematology testing, and blood donor screening. Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>K2EDTA and gel for plasma separation</td>
<td>8</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Pink</td>
<td>Spray-coated K2EDTA (plastic)</td>
<td>8</td>
<td>For whole blood hematology determinations. May be used for routine immunohematology testing and blood donor screening. Tube inversions ensure mixing of anticoagulant (EDTA) with blood to prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>Light Blue</td>
<td>Buffered sodium citrate (0.105 M=2.2%) (glass) Citrate, tripolyphosphate, adenosine, diprydymol (CTAD)</td>
<td>3-4</td>
<td>For coagulation determinations. CTAD for selected platelet function assays and routine coagulation determination. Tube inversions ensure mixing of anticoagulant (citrate) to prevent clotting.</td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td>None (plastic)</td>
<td>0</td>
<td>For use as a discard tube or secondary specimen tube.</td>
<td></td>
</tr>
</tbody>
</table>

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

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**Tube Inversions:**
- Clot activator and gel for serum separation
- Lithium heparin and gel for plasma separation
- Silicone coated (glass) Clot activator, Silicone coated (plastic)
- Thrombin-based clot activator with gel for serum separation
- Clot activator (plastic serum) K2EDTA (plastic)
- Sodium heparin Lithium heparin
- Potassium oxalate/ sodium fluoride Sodium fluorideNa2 EDTA Sodium fluoride (serum tube)
- K2EDTA (plastic)
- Sodium polyethylened sulfonate (SPS) Acid citrate dextrose additives (ACDI): Solution A - 23.5 g, trisodium citrate, 8.0 g, citric acid, 24.5 g, dextrose Solution B - 13.2 g, trisodium citrate, 4.8 g, citric acid, 14.7 g, dextrose
- Liquid K2EDTA (glass) Spray-coated K2EDTA (plastic)
- K2EDTA and gel for plasma separation
- Spray-coated K2EDTA (plastic)
- Buffered sodium citrate (0.105 M=2.2%) (glass) Citrate, tripolyphosphate, adenosine, diprydymol (CTAD)
- None (plastic)

**Laboratory Use:**
- For serum determinations in chemistry.
- For plasma determinations in chemistry.
- For serum determinations in chemistry.
- For stat serum determinations in chemistry.
- For stat serum determinations in chemistry.
- For trace-element, toxicology, and nutritional chemistry determinations.
- For plasma determinations in chemistry.
- For glucose determinations.
- For lead determinations.
- For use in molecular diagnostic test methods.
- For use in molecular diagnostic test methods.
- For use in molecular diagnostic test methods.
- For whole blood hematology determinations.
- For use in molecular diagnostic test methods.
- For use in molecular diagnostic test methods.
- For whole blood hematology determinations.
- For whole blood hematology determinations.
- For whole blood hematology determinations.
- For whole blood hematology determinations.
- For whole blood hematology determinations.
- For use as a discard tube or secondary specimen tube.

**Draw Volume/Remarks:**
- 5
- 8
- 3 to 6
- 8
- 8
- 8
- 8
- 8
- 8
- 3-4
- 0

**BD Vacutainer®** Tubes with BD Hemogard® Closure

- Gold
- Light Green
- Red
- Orange
- Royal Blue
- Green
- Gray
- Tan
- Yellow
- Lavender
- White
- Pink
- Light Blue
- Clear

**Conventional Stopper**

- Conventional Stopper Additive
- Sodium polyethylened sulfonate (SPS)
- Acid citrate dextrose additives (ACDI)
- K2EDTA (plastic)
- Potassium oxalate/ sodium fluoride
- Sodium fluorideNa2 EDTA
- Sodium fluoride (serum tube)
- K2EDTA (glass)
- Sodium polyethylened sulfonate (SPS)
- Acid citrate dextrose additives (ACDI)
- K2EDTA (plastic)
- Sodium fluoride (serum tube)
- K2EDTA (plastic)
- Sodium polyethylened sulfonate (SPS)
- Acid citrate dextrose additives (ACDI)
- K2EDTA (plastic)

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**BD Global Technical Services:** 1.800.631.0174

**BD Customer Service:** 1.888.237.2762

www.bd.com/vacutainer