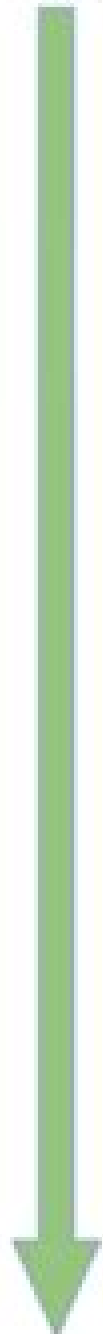








Draw  
order



Tube type	Additives and the mechanism of action	Inversions at blood draw	Important application note
<b>Blood culture bottle/tube</b> 	<ul style="list-style-type: none"> <li>May contain a growth medium to enhance microbial growth and sodium polyanethole sulfonate to prevent bacteria killing by inhibiting the activation of complement function.</li> </ul>	8 to 10	<ul style="list-style-type: none"> <li>Used for bacteria or fungi detection in a patient's blood.</li> <li>Extreme care should be taken to minimize contamination from the environment.</li> <li>Typically two sets of blood cultures are collected for adult patients, with one for aerobic (drawn first) and one for anaerobic.</li> </ul>
<b>Coagulation tube</b> 	<ul style="list-style-type: none"> <li>Contain sodium citrate, which inhibits coagulation through chelating free calcium ions (Factor V).</li> <li>Sodium citrate binds calcium with fixed stoichiometry, and adding more calcium can reverse its anticoagulation effect.</li> </ul>	3 to 4	<ul style="list-style-type: none"> <li>Primarily used for coagulation studies.</li> <li>Tubes must be completely filled to ensure proper blood-to-anticoagulant ratio.</li> <li>Several AD biomarkers, such as Aβ peptides, NFL, GFAP and t-tau, are lower in citrate plasma compared to other plasma samples.</li> </ul>
<b>Serum tube</b> 	<ul style="list-style-type: none"> <li>Contain glass or silica particles to activate clotting through Factor XII.</li> <li>May contain gel separator (gold/tiger top) to prevent contamination of cellular components by adding a diffusion barrier between serum and coagulated blood.</li> </ul>	Glass: 0 Plastic: 5	<ul style="list-style-type: none"> <li>Widely used in the hospital system for testings on clinical chemistry, immunology, and serology.</li> <li>Aβ peptides, t-tau and several pTau species are present in lower level in serum compared to plasma.</li> <li>Similar diagnostic accuracy for pTau181, pTau231 and bd-tau in serum and plasma.</li> </ul>
<b>Heparin tube</b> 	<ul style="list-style-type: none"> <li>Contain sodium or lithium heparin which inhibit coagulation by inactivating thrombin and factor Xa.</li> </ul>	8 to 10	<ul style="list-style-type: none"> <li>Widely used in clinical biochemical examination.</li> <li>Some evidence suggest higher AD biomarker levels in heparin plasma compared to other specimens.</li> </ul>
<b>EDTA tube</b> 	<ul style="list-style-type: none"> <li>Spray-coated with EDTA which inhibits coagulation through chelating calcium ions.</li> <li>The chelating of calcium by EDTA is irreversible.</li> </ul>	8 to 10	<ul style="list-style-type: none"> <li>More stable due to inhibition of some enzymatic activities.</li> <li>Preferred specimen for hematology testing.</li> <li>High EDTA concentrations are hypertonic and may shrink the red blood cells.</li> <li>Most used specimens in blood AD biomarker research.</li> </ul>
<b>Glycolytic inhibitor tube</b> 	<ul style="list-style-type: none"> <li>Contain sodium fluoride to inhibit glycolysis.</li> <li>Citrate, oxalate and EDTA may be added to inhibit coagulation and other metabolic processes</li> </ul>	8 to 10	<ul style="list-style-type: none"> <li>Used for determining glucose and lactate levels.</li> </ul>

# Tube Recommendations Collection

**Emmanuel J. Favaloro, Robert C.  
Gosselin**



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