




## Blood Required for Adult Tubes for Different Tests and Test Combinations

<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Category A (1/3 tube, or ~1.5 mL per bullet point)</b></p>		<p><b>Single analytes</b></p> <ul style="list-style-type: none"> <li>• C-Reactive Protein (CRP)</li> <li>• Beta-hCG (<math>\beta</math>hCG)</li> <li>• Estradiol (E2)</li> <li>• Insulin</li> <li>• Luteinizing Hormone (LH)</li> <li>• Procalcitonin</li> </ul>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Category C (3/4 to Full tube, or ~5 mL per bullet point)</b></p>		<p><b>Different test combinations</b></p> <ul style="list-style-type: none"> <li>• Repro Endo Profile 1 + 1 Category B test</li> <li>• Repro Endo Profile 2 + 1 Category B test</li> <li>• HIV Screen + HBsAg + Anti-HBs + HCV Total Antibody + Syphilis</li> </ul>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Category B (1/2 tube, or ~2.5 mL per bullet point)</b></p>		<p><b>Multiple analytes (Profile test / Panel test)</b></p> <table border="0"> <tr> <td> <ul style="list-style-type: none"> <li>• Renal Panel (RP)</li> <li>• Liver Function Test (LFT)</li> <li>• Lipid Panel</li> <li>• Iron Panel</li> <li>• Thyroid Panel (FT4 + TSH)</li> <li>• Hepatitis B Immunity Profile</li> <li>• Repro Endo Profile 1</li> <li>• Repro Endo Profile 2</li> <li>• Free Testosterone (Calculation) + FAI</li> <li>• Cardiac Markers (CK + CKMB + Troponin I)</li> <li>• Antenatal (HBsAg + Syphilis + HIV Screen + Rubella IgG)</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• AFP + <math>\beta</math>hCG</li> <li>• FSH + LH</li> <li>• FSH + LH + E2</li> <li>• Prolactin + PEG</li> <li>• Vitamin B12 + Folate + Iron Panel</li> <li>• HBsAg + Syphilis + Anti-HCV + HIV Screen</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• CRP + Procalcitonin</li> <li>• RP + CRP + Procalcitonin</li> <li>• LFT + RP + Calcium + CEA</li> <li>• LFT + RP + CRP + Calcium + Magnesium + Phosphate + Uric Acid</li> </ul> </td> </tr> </table>			<ul style="list-style-type: none"> <li>• Renal Panel (RP)</li> <li>• Liver Function Test (LFT)</li> <li>• Lipid Panel</li> <li>• Iron Panel</li> <li>• Thyroid Panel (FT4 + TSH)</li> <li>• Hepatitis B Immunity Profile</li> <li>• Repro Endo Profile 1</li> <li>• Repro Endo Profile 2</li> <li>• Free Testosterone (Calculation) + FAI</li> <li>• Cardiac Markers (CK + CKMB + Troponin I)</li> <li>• Antenatal (HBsAg + Syphilis + HIV Screen + Rubella IgG)</li> </ul>	<ul style="list-style-type: none"> <li>• AFP + <math>\beta</math>hCG</li> <li>• FSH + LH</li> <li>• FSH + LH + E2</li> <li>• Prolactin + PEG</li> <li>• Vitamin B12 + Folate + Iron Panel</li> <li>• HBsAg + Syphilis + Anti-HCV + HIV Screen</li> </ul>	<ul style="list-style-type: none"> <li>• CRP + Procalcitonin</li> <li>• RP + CRP + Procalcitonin</li> <li>• LFT + RP + Calcium + CEA</li> <li>• LFT + RP + CRP + Calcium + Magnesium + Phosphate + Uric Acid</li> </ul>
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**DISCLAIMER:**

- For tests not listed in this guide, please refer to eLab book.
- Sharing of tubes across different laboratories is not recommended. Please send separate tubes accordingly.
- Blood volume is calculated based on 50% PCV / HCT, and minimum serum height required according to manufacturer's criteria.  
*Note: volume of blood required for pediatric tube is different due to smaller tube diameter.*
- If the patient has higher PCV / HCT (>50%), it may not be sufficient for half tube to run Category B tests. It is recommended to draw **full** tube of blood.
- For samples with low volume (i.e. patients who are difficult to bleed), please send a memo to lab. Failure to do so will result in sample rejection.  
*Refer to eLab book > Special Instructions > Clinical Chemistry*