

| V | Order | Color | ClotA | aCoA | Ad | Additives | Uses General | Source | Notes |
|---|-------|-----------------------------|--------|------|----|---------------------------------------|-------------------------------|--------|---|
| | | 0 | | | | | | 1 | Actions take - 0329 - Teacher 0514r.pdf |
| | | 0 | | | | | | 2 | Blood - qa125 - CPTa -1. Blood in urin is called - 0112.pdf |
| | | 0 | | | | | | 3 | Blood - qa98 - CPT5 - 1. CLIA waved - 0127.pdf |
| | | 0 | | | | | | 4 | Blood - qa39 - TF - 1. VacTube Marble Gray top - 0112.pdf |
| | | 0 | | | | | | | Folder: Blood - Tubes - Additives - NHA Combo Study Guid - Teachers |
| | | 0 | | | | | | 5 | hand outs - 2020 0704sat (My orig COLOR photo w notes) |
| | | 0 | | | | | | 5 | Groups 1 to 10 - Michigan Medicine |
| | | 0 | | | | | | | Folder: Blood - Tubes - Additives - NHA Combo Study Guid - Teachers |
| | | 0 | | | | | | 6 | hand outs - 2020 0704sat (NHA Cert Study Guide) |
| v | | 0 | | | | | | 7 | Draw order - Venipuncter |
| c | | 0 | | | | | | 7 | Draw order - Capulary (also called Dermal) |
| | | 0 | | | | | | 8 | Folder: Blood - Tubes - handouts - quizlet QA - terms Additives |
| | | 0 | | | | | | 9 | Google: Blood - Tubes - Additives Green - Lav - Light Blue - Google 06-23.png |
| | | Cultures | | | | Cultures | C&S (Culture and Sensitivity) | 2 | Microbiology laboratory section |
| | 1 | Cultures | | | | Cultures | | 6 | Blood cultures tubes or vials |
| v | 1 | Cultures | | | | Cultures | | 7 | Set Aerobic and AnAerobic |
| | 1.1 | Cultures Blue & Purple caps | | | | Liquid broth or detergent used as set | | 5 | Blood Culture - As set |
| | 1.2 | Cultures Blue caps | | | | Cultures | Aerobic-only cultures | 5 | Blood Culture - Individual |
| v | 3 | Gold | ClotA? | | n | No Additive - May have Clot Activator | | 7 | |
| c | | Gold | n | | n | No additive - No Clot activator | | 7 | |
| | 4.2 | Gold | ClotA | | | SST gel separator w cot activator | which ones | 5 | Serum determinations including Chemistry - Serology - Therapeutic drug monitoring |

| | | | | | | | | | |
|---|----|---------------|--|----------|---|-----------------------------------|---|---|--|
| | | Gold (Marble) | | | | SST | Alcohol level | 3 | (ER auto accident) CBC & Forensic Alcohol level |
| | | Gray | | yAC? | y | Potassium Oxalate | | 2 | |
| | | Gray | | | | Potassium Oxalate | Alcohol level | 3 | (ER auto accident) CBC & Forensic Alcohol level |
| | 3 | Gray | | | y | Potassium Oxalate | | 3 | |
| | | Gray | | | y | Potassium Oxalate | Glucose Tolerance | 4 | |
| | 6 | Gray | | | y | Potassium Oxalate | | 4 | Contents can elevate electrolyte levels or damage cells if pass into other tubes |
| | 8 | Gray | | | y | Potassium Oxalate/Sodium Fluoride | Lactic acid - Plasma other - Whole blood other determinations | 6 | |
| | 10 | Gray | | | y | | TB NIL baseline to comare | 5 | |
| | 6 | Gray | | | y | Potassium Oxalate/Sodium Fluoride | | 6 | Oxalate/Fluoride tubes (e.g Gray tops) |
| | | Gray | | yAC | y | Additives and AntiCoagulants | | 6 | Invert 8 times |
| | | Gray | | yAGly | | Sodium Fluorite | Glucose keep 3 days | 6 | All have Sodium Fluorite an AntiGlycolytic |
| | | Gray | | | | Lithium IodoAcetate | Glucose for 24 hours | 6 | or Lithium IodoAcetate |
| | | Gray | | yAC?aybe | | Potassium Oxalate | | 6 | Potassium Oxalate that prevents clotting by binding to calcium |
| | | Gray | | | | | FSB Fasting Blood Sugar | 6 | |
| | | Gray | | | | | GTT Glucose Tolerance test | 6 | |
| | | Gray | | | | Potassium Oxalate | Blood Alcohol levels | 6 | |
| | | Gray | | | | Potassium Oxalate/Sodium Fluoride | Lactic Acid measurement | 6 | |
| v | 6 | Gray | | | y | Potassium Oxalate/Sodium Fluoride | | 7 | |
| | | Gray | | yAC? | | Potassium Oxalate | Glucose | 8 | |

| | | | | | | | | |
|---|---|-------------------|--|------|---|--|---|---|
| | | Green | | | Heparin | Sodium Level | 1 | |
| | | Green | | yAC? | Heparin | Chromosome Analysis | 1 | |
| | | Green | | y | Thrombin is inhibited | Serum (Series) | 2 | Question says Prothrombin is an additive (https://www.labce.com/spg263741_blood_collection_tubes.aspx) |
| | | Green | | yAC? | Heparin Lithium/Sodium | | 2 | |
| | 3 | Green | | | Heparin | Ammonia level | 2 | |
| | | Green | | | Heparin | Electrolytes (STAT) | 2 | ER Emergency Room |
| | 1 | Green | | | Heparin | | 3 | |
| | 4 | Green | | yAC? | Heparin (1st - EDTA 2nd) | | 4 | Heparin is less likely to interfere w EDTA then vice versa |
| | 6 | Green | | | Heparin (Sodium or Lithium) | Plasma - Whole Blood determinations | 6 | |
| | 4 | Green | | | Heparin | | 6 | Heparin tubes (e.g Green tops) |
| | | Green | | yAC | Heparin (Sodium Lithium Ammonia) | Chemistry performed on plasma - Ammonia - CarboxyHemoGlobin - Electrolytes(STAT) | 6 | Heparin inhibits thrombin in CoAgulation cascade. Not used for hemaTogy since Heparin interferes w Wright's stained blood smear. Invert 8 times. |
| v | 4 | Green | | yAC? | Heparin | | 7 | |
| c | 2 | Green | | yAC? | Heparin | | 7 | |
| | | Green | | yAC? | Heparin | Chemistry tests | 8 | |
| | | Green | | yAC | Heparin Sodium | Heparinized plasma preparation | 9 | Invert several times immediately after draw to prevent CoAgulation |
| | | Green | | | Heparin | Whole blood | 9 | |
| | | Green | | | Heparin | Bone marrow specimens | 9 | |
| | | Green (Speckled?) | | yAC | Heparin (Lithium) & gel plasma separation | Thyroid | 1 | For plasma determinations in chemistry. Invert mix anticoagulant (heparin) with blood to prevent clotting. |
| c | 1 | Lavender | | yAC | ETDA | Dermal Samples | 1 | Draw before Green Red Light Blue |
| | | Lavender | | yAC | EDTA | CBC (Complete Blood Count) | 2 | HematoCrit HemoGlobin Differential (Source 2.33) |

| | | | | | | | | | |
|---|-----|----------|--|-----|----|---|--|---|---|
| | | Lavender | | yAC | y | EDTA | ESR (Erythrocyte Sedimentation Rate) | 2 | |
| | 4 | Lavender | | | | | CBC (Complete Blood Count) | 2 | |
| | | Lavender | | yAC | y | EDTA | | 2 | Question ask which is incorrect about Lavender top: Not for coagulation studies |
| | | Lavender | | | | | | 3 | Check for HematoCrit or HemoGlobin value |
| | | Lavender | | | | | CBC and ESR | 2 | Hematology laboratory section |
| | 2 | Lavender | | yAC | y | EDTA | | 3 | |
| | 1 | Lavender | | yAC | y | EDTA | | 4 | Need WCB - RBC - Glucose - Electrolyte (cant find veins) |
| | | Lavender | | yAC | y | EDTA | CBC HemaTology | 4 | |
| | | Lavender | | Nac | y? | No AntiCoagulants | | 4 | |
| | | Lavender | | yAC | y | EDTA | CBC HemaTology | 4 | |
| | 7.1 | Lavender | | yAC | y | EDTA | which ones | 6 | Blood bank testing |
| | 5 | Lavender | | yAC | y | EDTA | | 6 | EDTA tubes (e.g Lavender tops) |
| | | Lavender | | yAC | y? | EDTA Ethylendiaminetetraacetic Acid (AntiCoagulate) - inhibits coagulation by binding to calcium | | 6 | Must fill at least 2/3 tube and invert 8 times |
| | | Lavender | | yAC | | EDTA | CBC Complete Blood count including RBC - WBC - Platelet (Counts) | 6 | |
| | | Lavender | | yAC | | EDTA | WBC differentail count | 6 | |
| | | Lavender | | yAC | | EDTA | HemoGlobin and HematoCrit determinations | 6 | |
| | | Lavender | | yAC | | EDTA | ESR (Erythrocyte Sedimentation Rate) including Sickle Cell screening | 6 | |
| c | 1 | Lavender | | yAC | y | EDTA | | 7 | |

| | | | | | | | | | |
|---|---|--------------------|--|-----|---|---|--|---|--|
| | | Lavender | | yAC | | EDTA | CBC HemaTology | 8 | |
| | | Lavender | | yAC | | EDTA | Preparation of: | 9 | Invert several times immediatley after draw to prevent CoAgulation |
| | | Lavender | | | | EDTA | EDTA plasma | 9 | |
| | | Lavender | | | | EDTA | Whole blood | 9 | |
| | 5 | Lavender | | yAC | y | ETDA | | 4 | |
| v | 5 | Lavender or purple | | yAC | y | EDTA | | 7 | |
| | | Light Blue | | yAC | y | Sodium Citrate 3.2% (Anticoagulant) | PT/PTT | 1 | |
| | | Light Blue | | | y | Sodium Citrate 3.2% | Glucose stablity 3 days | 3 | |
| | 1 | Light Blue | | | y | Sodium Citrate 3.2% | Find which is which -> | 2 | Order: Light Blue(PT/PTT) - Red (Cardiac enzymes) - Green(Ammonia level) - Lavender(CBC) |
| | | Light Blue | | | y | Sodium Citrate 3.2% | CoAgulation tests | 4 | |
| | 2 | Light Blue | | | y | Sodium Citrate 3.2% | | 4 | Other AntiCoagulates may contaminate sample for coAgulation studies. |
| | | Light Blue | | | | Sodium Citrate 3.2% - Thrombin(Pro)? | PT Prothrombin time (CoAgulation tests) | 4 | |
| | | Light Blue | | | | Sodium Citrate 3.2% | APTT Activated partial ThromboPlastin time) (CoAgulation test) | 4 | |
| | 3 | Light Blue | | | | Sodium Citrate 3.2% | CoAgulation - Plasma - Whole blood determinations | 5 | CoAgulation only draw then use another 1-2ml tube discard |
| | 2 | Light Blue | | | | Sodium Citrate 3.2% | | 6 | Sodium Citrate tubes (e.g Blue tops) |
| | | Light Blue | | yAC | y | Sodium Citrate (AntiCoAgulate) that also prevents CoAgulation by binding to calcium | CoAgulation studies | 6 | This AntiCoAgulant used for CoAgulation studies because it preserves CoAgulation factors - Tube 100% full invert 3-4 times |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% - Thrombin(Pro)? | PT Prothrombin Time | 6 | Evaluates Extrinsic systems - CoAgulation cascade and monitor - CoUmadin therapy |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | Activated Partial ThromboPlastin Time (APTT,PTT) |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | Evaluates INtrinsic systems |

| | | | | | | | | | |
|---|-----|----------------------|--|-----|---|--------------------------------------|--|---|--|
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | CoAgulation cascade and monitor Heparin therapy. |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | FibrinoGen Degradation Products FDP |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% - Thrombin(Pro)? | | 6 | TT Thrombin Time |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | Factor assays |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% | | 6 | BT Bleeding Time |
| v | 2 | Light Blue | | | y | Sodium Citrate 3.2% | | 7 | |
| | | Light Blue | | | | Sodium Citrate 3.2% | CoAgulation | 8 | |
| | | Light Blue | | yAC | | Sodium Citrate 3.2% as AntiCoagulant | Preparation of Citrated plasma for coAgulation Studies | 9 | Invert several times immediatley after draw to prevent CoAgulation |
| | | Light Green | | | | | Bone marrow specimens | 9 | |
| v | 1 | Light Yellow stopper | | | | SPS additive | | 7 | |
| | | n/a | | yAC | | EDTA | | 4 | EDTA (EthyleneDiamineteTraacetic Acid) an Anticoagulant that binds w calcium prevents platelets from clumping and preserves appearance blood cells for microScopic preperation |
| | | n/a | | | | | | 4 | Order draw: Light Blue Red Lavender For:HemaTology - Serum Chemistry - CoAgulation studies |
| v | | n/a | | | | | | 7 | Additional special testing tubes most likey draw after lavender. Extra care for blue tops for CoAgulation testing. |
| c | 3 | n/a | | | | Any other additive specimens | | 7 | |
| v | 5 | Pearl | | yAC | | EDTA | | 7 | |
| c | 1 | Pearl | | yAC | | EDTA | | 7 | |
| | | Pink | | yAC | | EDTA | | 2 | |
| | 7.2 | Pink | | yAC | | EDTA | which ones | 6 | Blood bank testing |
| v | 5 | Pink | | yAC | | EDTA | | 7 | |
| c | 1 | Pink | | yAC | | EDTA | | 7 | |
| | 10 | Purple | | | | EDTA | TB QuantiFERON | 5 | |
| c | 1 | Purple | | yAC | | EDTA | TB maybe | 7 | |

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|---|-----|----------------------------|-------|-----|---|---|--------------------------|---|--|
| | 2 | Red | n | | n | Nada - clots itself-BDd | Cardiac enzymes | 2 | |
| | 2 | Red | n | | n | Nada - clots itself-BDd | | 4 | Google says red top does not have clot activators. BD says has it. |
| | 3 | Red | n | | n | Nada - clots itself-BDd | Serum | 4 | |
| | 4.1 | Red | n | | n | Nada - clots itself-BDd | which ones | 5 | Serum determinations including Chemistry - Serology - Therapeutic drug monitoring |
| | 10 | Red | n | | n | Nada - clots itself-BDd | TB Antigen | 5 | |
| | 3 | Red | n | | n | Nada - clots itself-BDd | | 6 | Serum tubes w or without clot activator or gel (e.g Red tops) |
| | | Red | n | | n | Nada - clots itself-BDd | Serum Chemistry tests | 6 | Also called plain vacuum tubes |
| | | Red | n | | n | Nada - clots itself-BDd | Serology | 6 | Blood clots by itself in 30 minutes |
| | | Red | n | | n | Nada - clots itself-BDd | Blood bank | 6 | No invert |
| v | 3 | Red | n | | n | Nada - clots itself-BDd | | 7 | Google says red top does not have clot activators. BD says has it. |
| c | 4 | Red | n | | n | Nada - clots itself-BDd | | 7 | |
| | | Red | n | | n | Nada - clots itself-BDd | Blood Bank (HemoTology?) | 8 | |
| v | 3 | Red/Black (Speckled) | n | | n | Nada - clots by itself | | 7 | Google says red top does not have clot activators. BD says has it. |
| | | Red/Black (Speckled) tiger | ClotA | | | ThixoTropic Gel (Separate serum) | | 2 | Wiki: Tubes w CoAgulant: Gold or "tiger" red/black top: clot activator and gel for serum separation |
| | 3 | Red/Gold (Speckled) | ClotA | | | | | 4 | |
| | | Red/Gray (Specked) | ClotA | Nac | | ThixoTropic Gel (Separate serum) | Serum (get it) | 3 | |
| | | Red/Gray (Speckled) | ClotA | | | Silica glass particles - Celite that hastens clotting | | 6 | Also called Tiger top and SST serum separator tubes |
| | | Red/Gray (Speckled) | ClotA | Nac | | ThixoTropic Gel (Separate serum) | Most chemistry tests | 6 | Thrixotropic Gel a serum separator when centrifuged forms barrier between serum and cell preventing contamination. Invert 5 times. |
| | | Red/Gray (Speckled) | ClotA | Nac | | ThixoTropic Gel (Separate serum) | | 2 | |

| | | | | | | | | | |
|---|-----|------------------------|---|------|---|---|---|---|---|
| v | 3 | Red/Gray (Speckled) | n | | n | Nada - clots by itself | | 7 | Google says red top does not have clot activators. BD says has it. |
| | | Royal Blue | | yAC? | | EDTA - Heparin? | Lead level | 2 | Question maybe referring to Heparinized blood not additive |
| | 5 | Royal Blue | | | | No preservative w clot activator | Trace metal serum determinations | 6 | Serum determinations Trace metal |
| | 7.3 | Royal Blue | | yAC | | EDTA | Trace metal and whole blood or plasma determinations | 6 | |
| | | Speckled top | | | | SST | Routine Chemistry Require Serum | 1 | |
| | | Tan | | yAC | | EDTA | Lead level | 2 | BD: K2EDTA (plastic) - certified to contain less than .01 µg/mL(ppm) lead. |
| | 7.4 | Tan | | | | EDTA | Lead level | 6 | |
| | | Yellow | | | | | Blood Cultures | 8 | |
| | 9 | Yellow | | | | ACD (Acid Citrate Dextrose) Solution A or B | Whole blood determinations including Cytometry - Tissue typing assays | 6 | |
| | 2 | Yellow & Black stopper | | | | | MycoBacterial - fungus - AFB blood cultures | 5 | Glass tube |
| | | Yellow (sterile) | | yAC | y | SPS Soldium PolyanetholeSulfonate (AntiCoAgulant) | To be cultured look for MicroOrganisms | 6 | SPS aids in recovery of MicroOrganisms by inhibiting actions of complement phagocytes and certain antibiotics. Invert 8 times |
| | 1 | Yellow Blood Culture | | | | | They are sterile | 4 | |
| | | | | | | | | 7 | Blood - Tubes - handouts - Order Additives - Capillary n more |