

**LABORATORY- SPECIMEN TUBE TYPE**

**BLOOD BANK**

\*These specimens for Blood Bank require special training and can only be collected by trained RRMC staff.

- \*ABO Type
- \*Antibody Screen
- \*Cross Match (Typenex Band)
- \*Hold Clot
- \*RH Type
- \*Rhogam Work up
- \*Type and Screen



4 mL                      2 mL  
**Grenier or BD Lavender EDTA**  
**[Refrigerate & Do Not Spin]**  
4mL tube requires 2mL minimum  
2mL tube requires 1mL minimum

ABORH Newborn, DAT, Dir. Coombs

**COAGULATION**



3 or 2.7 mL              2 or 1.8 mL  
**Grenier or BD Light Blue Sodium Citrate**  
**[Room Temp & Do Not Spin]**

-Grenier **MUST** fill to within triangle marker

-BD must fill to top of label

- D-Dimer
- DIC (add Lavender)
- Anti Xa (draw at RRMC only)
- Fibrinogen
- Prottime (PT/INR)
- PTT
- Thrombin Time

**HEMATOLOGY**



4 mL                      2mL  
**Grenier or BD Lavender EDTA**  
**[Do Not Spin]**  
**[Room Temp or Refrigerate]**  
4mL tube requires 2mL minimum  
2mL tube requires 1mL minimum

- CBC
- DIC (+ Blue Top)
- H&H
- Immature Platelet Fraction
- Monoscreen
- Platelet Count
- Retic Count
- Sed Rate (ESR)
- WBC Count

**CHEMISTRY**



3 or 5 mL **Grenier or BD Green/Yellow or Light Green Gel Separator**  
**[Spin & Refrigerate within 2hrs]**

- Acetaminophen
- Acetone
- Albumin
- Alcohol
- Alkaline Phosphatase
- ALT
- Amylase
- AST
- Bilirubin Direct or Total
- BMP (*fasting recommended*)
- BUN
- C3 & C4 Complement
- CA 125
- Calcium
- Carbamazepine (Tegretol)
- Carcinoembryonic Ab (CEA)
- Cholesterol (HDL, LDL Total; *fasting recommended*)
- CK
- CMP (*fasting recommended*)
- Creatinine
- C Reactive Protein
- Digoxin
- Dilantin (Phenytoin)
- Ferritin
- Folate
- FSH
- Gentamicin
- GGT
- Glucose (*fasting recommended*)
- HCG Quantitative
- Hepatic Function Panel
- High Sensitivity CRP
- IgA, IgG, IgM
- Iron/TIBC
- LDH **[keep Room Temp]**
- LH
- Lipase
- Lipid Profile (*fasting recommended*)
- Lytes (*fasting recommended*)
- Magnesium
- NT-proBNP
- Phenobarbital
- Phosphorus
- Prolactin
- PSA
- Renal Panel (*fasting recommended*)
- Rheumatoid Factor
- Salicylate
- T3 Free & T4 Free
- T4 Total
- Theophylline
- Total Protein
- Triglycerides (*fasting recommended*)
- Troponin
- TSH (NOT for Cascade)
- Uric Acid
- Valproic acid
- Vancomycin
- VB12

**CHEMISTRY (cont.)**



4 mL                      2 mL  
**Grenier or BD Lavender EDTA**  
**[Do Not Spin]**  
4mL tube requires 2mL minimum  
2mL tube requires 1mL minimum

HGB A1C



5 mL  
**Grenier or BD Gold Gel Separator**  
**[Clot 30 mins, then Spin & Refrigerate within 2 hrs]**

- CCP Abs
- Cortisol
- Estradiol
- Haptoglobin
- Hepatitis Acute Panel (2 tubes)
- HIV 1/2 Ab
- Lithium
- Lyme Serology or Western Blot
- Mumps Ab
- Rubella Ab
- Rubeola (Measles) Ab
- Procalcitonin
- Progesterone
- PTH Intact
- Syphilis Ab
- T3 Total
- Thyroid (TSH) Cascade
- Varicella zoster Ab
- Vitamin D (25-Hydroxy)



4 mL  
**Grenier or BD Dark Green Lithium Heparin**  
**[ON ICE, STAT TO LAB WITHIN 15 MINUTES]**

- Ammonia
- Carboxyhemoglobin
- Critical Care Panel (CCP)
- Ionized Calcium
- (included in CCP)
- Lactate
- (included in CCP)
- Arterial Blood Gas
- Venous Blood Gas
- (included in CCP)

**LABORATORY- SPECIMEN TUBE TYPE**

**REFERENCE (Send-outs)**

Send-out testing may require special handling procedures and specific volumes. Please call 747-1794 for confirmation.



9 or 10 mL

**Grenier or BD Plain Red**

**[Clot 30 mins, then Spin, Separate, and Refrigerate within 2 hrs]**

- 17 -Hydroxyprogesterone
- Aldolase
- Aldosterone
- Androstenedione
- Angiotensin Converting Enzyme
- Beta 2 Microglobulin
- C1 Esterase Inhibitor Functional
- CA 15-3
- Calcitonin Level
- Candida IgG, IgA, IgM Ab Panel
- Chromogranin A
- Clozapine (Clozaril)
- Complement Total
- Infliximab Quantification
- Lipoprotein
- Mycoplasma pneumoniae Ab
- Olanzapine (Zyprexa)
- Phenytoin T&F
- Serotonin
- Testosterone, T&F
- Trazodone Level
- Tricyclic Antidepressants
- Topiramate (Topamax)
- Vitamins A, E, & K



5mL

**Grenier or BD Gold Gel Separator**

**[Clot 30 mins, then Spin & Refrigerate within 2 hrs]**

- Acetylcholine Receptor Binding Ab
- Alkaline Phosphatase Isoenzymes
- Allergens
- Alpha 1 Antitrypsin
- Alpha Feto Protein
- Antineutrophil Cytoplasmic Ab ANCA
- Antinuclear Ab Screen (ANA)
- Anti-Streptolysin O
- Beta-Carotene (light protect)
- CA 19-9
- CA 27-29
- Cardiolipin Ab
- Celiac Serology
- Ceruloplasmin
- Cytomegalovirus CMV IgG
- C-Peptide
- DHEAS
- Epstein Barr Virus Ab Panel
- Erythropoietin
- Estrogens
- Herpes Simplex Virus Ab
- Hypersensitivity Pneumo Panel IgG
- IgE
- IgG Subclasses
- Immunoglobulin Free Light Chains
- Insulin
- Ionized Calcium **(DO NOT OPEN)**
- Kepra (Levetiracetam)
- Lamotrigine (Lamictal)
- Levetiracetam (Kepra)
- Mitochondrial Ab
- Osmolality
- Oxcarbazepine (Trileptal)
- Parvovirus B19 Abs
- Prealbumin
- Protein Electrophoresis
- PSA Total & Free
- Single Stranded DNA Antibody
- Smooth Muscle Ab
- Thyroglobulin Tumor Marker
- Thyroid Abs
- Thyroperoxidase
- TICK ANTIBODY Panel (NOT DNA)
- Tissue Transglutaminase
- Tobramycin
- Toxoplasma Ab
- Transferrin



3 or 2.7 mL

**Grenier or BD Light Blue Sodium Citrate**

*-Grenier MUST fill to within triangle marker*

*-BD must fill to top of label*

**[Call for special handling]**

- AT3 Functional (2 Tubes)
- Factor 2 (II) (2 Tubes)
- Factor 8 (VIII) (2 Tubes)
- Factor 9 (IX) (2 Tubes)
- Factor 11 (XI) (2 Tubes)
- Factor 12 (XII) (2 Tubes)
- Lupus Anticoagulant Profile (7 Tubes)
- Protein C&S (2 Tubes)



4 or 6 mL

**Grenier or BD Dark Green Lithium Heparin**

- Chromosome Analysis 6mL
- [Do not spin-Room Temperature]**
- Pyridoxal 5-Phosphate (Vitamin B6)
- [Call for special handling]**



4 mL

2 mL

**Grenier or BD Lavender EDTA**

4mL tube requires 2mL min.  
2mL tube requires 1mL min.

**Unless otherwise noted:**

**Refrigerate and Do Not Spin**

- ACTH [draw at RRMC only]
- CD4 T-Cell [Room Temp]
- Cyclosporine
- FK506 (Tacrolimus.)
- Hemochromatosis HFE [Room Temp]
- HIV1 Quantitative (2 Tubes) [Spin, Separate, & Freeze]
- HLA B27 [Room Temp]
- Homocysteine [Spin, Sep, & Freeze]
- JAK2 [Room Temp]
- Lead
- Sirolimus (Rapa)
- TICK Borne DNA Panel
- Vitamin B1 (Thiamine) **Overnight Fast, light protect whole blood in amber vial and freeze immediately.**



6mL

**Royal Blue (for Metals)**

**MONOJECT** (no additive)

Trace Elements in serum

**[Clot 30 minutes, then POUR OFF (DO NOT USE A PIPETTE) serum into special metal free tube-Refrigerate]**

**MONOJECT** EDTA

Trace Elements in whole blood

**[Do Not Spin - Refrigerate]**



6mL

**ACD Solution B Tube [Do Not Spin]**

- Cystic Fibrosis Carrier
- Factor 5 (V) Leiden Mutation
- MethyleneTetraHydroFolate Red Mut
- PT G20210A Mutation
- Tay Sachs (2 full tubes)

Order of draw for multiple tube collections and all departments:

Blood Cultures – **Blue -Gold - Red - Royal Blue MONOJECT - Green – Royal Blue MONOJECT - Lavender -Yellow ACD**  
FIRST → LAST