

**CLINICAL CHEMISTRY ACCEPTABLE SPECIMEN TUBE TYPES
USING "BD" VACUTAINERS OR "GREINER" VACUETTE**

CHEMISTRY LAB:										
TEST	RECOMMENDED (PREFERRED)	ALSO ACCEPTABLE			TEST	RECOMMENDED (PREFERRED)	ALSO ACCEPTABLE			
Acetaminophen	Red	Green			Hepatitis B Surface Ab	Gold	Green	Red	Light Green	
AFP	Light Green	Green	Red	Gold	Hepatitis B Surface Ag	Gold		Red		
Albumin	Light Green	Green	Red	Gold	Hepatitis C Antibody	Lavender				
Alcohol (Ethanol)	Light Green	Green	Red	Gold	HDL	Light Green	Green	Red	Gold	
Alkaline Phosphatase	Light Green	Green	Red	Gold	HIV AG/AB COMBO	Gold	Green	Red	Lavender	
Alpha1-Antitrypsin	Light Green	Green	Red		HIV-1,2 Antibody Confirmation	Gold	Green	Red	Lavender	
ALT (SGPT)	Light Green	Green	Red	Gold	Homocysteine	Green On Ice			LG on Ice	
Amikacin	Red	Green			Iron	Light Green	Green	Red	Gold	
Ammonia	Collect/Send On Ice	On Ice	Note: Send to Lab IMMEDIATELY			Lactic Acid	Collect/Send On Ice	Note: Send to Lab IMMEDIATELY		
Amylase	Light Green	Green	Red	Gold	LDH	Light Green	Green	Red	Gold	
AST (SGOT)	Light Green	Green	Red	Gold	LDL (Direct)	Light Green	Green	Red	Gold	
B12	Light Green		Red	Gold	LH	Light Green	Green	Red	Gold	
Beta-hydroxybutyrate	Light Green	Green	Red	Gold	Lipase	Light Green	Green	Red	Gold	
Bilirubin (Total/Direct)	Light Green	Green	Red	Gold	Lithium	Red	Green		Gold	
BMP	Light Green		Red	Gold	Lyme Antibody Panel	Gold		Red		
BNP	Lavender				Magnesium	Light Green	Green	Red	Gold	
BR 15-3 (CA 15-3)	Light Green	Green	Red	Gold	Methotrexate	Red	Green			
CA 125	Light Green	Green	Red	Gold	MPA	Lavender		Red		
CA 19-9	Gold	Green	Red		Osmolality	Light Green	Green	Red	Gold	
Calcium	Light Green	Green	Red	Gold	Phenobarbital	Red	Green			
Carbamazepine	Red	Green			Phosphorus	Light Green	Green	Red	Gold	
CO2	Light Green	Green	Red	Gold	Potassium	Light Green	Green	Red	Gold	
CEA	Light Green	Green	Red	Gold	Pre-Albumin (PAB)	Gold		Red		
Ceruloplasmin	Gold		Red		Procalcitonin	Light Green		Red	Gold	
Chloride	Light Green	Green	Red	Gold	Progesterone	Light Green	Green	Red	Gold	
Cholesterol	Light Green	Green	Red	Gold	Prolactin	Light Green	Green	Red	Gold	
CMP	Light Green		Red	Gold	Protein (Total)	Light Green	Green	Red	Gold	
Cortisol	Light Green	Green	Red	Gold	PSA	Gold		Red		
CK	Light Green	Green	Red	Gold	**PTH	Lavender	Green	Red		
Creatinine	Light Green	Green	Red	Gold	Rheumatoid Factor	Gold		Red		
CRPH	Light Green	Green	Red	Gold	Salicylate	Red	Green			
Cyclosporine	Lavender				Sirolimus	Lavender				
Cystatin C	Gold	Green	Red		Sodium (Na)	Light Green		Red	Gold	
Digoxin	Red	Green			Syphilis	Red			Gold	
Dilantin (Phenytoin)	Red	Green			T3	Light Green	Green	Red	Gold	
Dilantin, Free	Red	Green			T4	Light Green	Green	Red	Gold	
Estradiol	Light Green		Red	Gold	Tacrolimus	Lavender				
Everolimus	Lavender				Tricyclic Screen	Red	Green			
Ferritin	Light Green		Red	Gold	Theophylline	Red	Green			
Folate	Light Green		Red	Gold	Tobramycin	Red	Green			
Free PSA	Gold		Red		Transferrin/TIBC	Light Green	Green	Red	Gold	
Free T3	Light Green	Green	Red	Gold	Triglyceride	Light Green	Green	Red	Gold	
Free T4	Light Green	Green	Red	Gold	Troponin-I	Light Green	Green			
FSH	Light Green	Green	Red	Gold	<i>Troponin-I (ED ONLY)</i>		>Green	>Use 4mL tube for Direct Delivery		
Gentamicin	Red	Green			TSH	Light Green	Green	Red	Gold	
GGT	Light Green	Green	Red	Gold	TSH (Reflex/Cascade)	Light Green	Green	Red	Gold	
*GLUCOSE	Gray	Green	Red	Gold	Urea Nitrogen (BUN)	Light Green	Green	Red	Gold	
HCG (QUAL)	Gold		Red		Uric Acid	Light Green	Green	Red	Gold	
HCG (QUANT)	Light Green	Green	Red	Gold	Valproic Acid	Red	Green			
Hepatitis A Ab (IGG)	Gold		Red		Vancomycin	Red	Green			
Hepatitis A Ab (IGM)	Gold	Green	Red							
Hepatitis B Core Ab (Tot)	Gold	Green	Red							
Hepatitis B Core Ab (IgM)	Gold	Green	Red							

NOTES:

***GLUCOSE:** A Gray top tube is recommended for Glucose testing to prevent glycolysis. Other tubes (Red, Green) are also acceptable IF centrifuged and testing with 2 hours after collection. Other tubes (Light Green, Gold) are also acceptable IF centrifuged within 2 hours after collection and tested with 8 hours of collection if stored at room temperature, or 72 hours of collection if stored refrigerated.

****PTH:** Red tops are acceptable, but not recommended due to lower analyte stability (at 4 hours Room Temperature for Red Top (serum) vs 8 hours for Purple Top (plasma))

*****IMPORTANT NOTE: Basic Metabolic Panel (BMP) and Comprehensive Metabolic Panel (CMP) can only be drawn in a LIGHT GREEN, GOLD, or RED top tubes**

COLLECTION TUBE CONTENTS (GREINER VACUETTE):

Light Green - Yellow Ring	: contains Lithium Heparin and Separator Gel
Gold - Gold Ring	: contains Serum Separator Gel and Clot Activator
Red - Black Ring	: contains Serum Clot Activator
Lavender - Black Ring	: contains EDTA

TUBE SIZE ON LABEL (Blood Vacuum Draw):

- 5 mL
- 5 mL
- 6 mL
- 6.0 or 3.0 mL

COLLECTION TUBE CONTENTS (BD VACUTAINER):

Light Green	: contains Lithium Heparin and Separator Gel
Green	: contains Sodium Heparin only
Gold	: contains only a Separator Gel
Red	: contains nothing
Lavender	: contains EDTA
Gray	: contains Sodium Fluoride and Potassium Oxalate

TUBE SIZE ON LABEL (Blood Vacuum Draw):

- 4.5 mL
- 6.0 or 4.0 mL
- 5.0 mL
- 6.0 mL
- 6.0 or 3.0 mL
- 4.0 mL

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SPECIAL CHEMISTRY TESTS can be found on the next page

NOTE: Please draw an "Additional" tube if any of the test below are ordered along with any "Chemistry Lab" tests that may use the same colored tube to avoid not having enough blood to perform all the testing.

SPECIAL CHEMISTRY LAB:			
TEST	RECOMMENDED (PREFERRED)	ISO ACCEPTABLE	
Adrenocorticotrophic Hormone	Lavender On Ice		
Anti-Thyropoxidase AB(ATPO)	Gold		
Anti-DNA AB	Gold		
Anti-Cardiolipin	Gold		
Anti-Chromatin	Gold		
Anti-Centromere	Gold		
Anti-CCP	Gold		
Anti-nuclear AB	Gold		
B2 Glycoprotein	Gold		
Beta 2 Microglobulin	Gold		
C3 Complement	Gold		
C4 Complement	Gold		
CMV	Gold		
C Peptide	Red		
Double Stranded DNA	Gold		
EBV	Gold		
Growth Hormone	Red		Gold
Gliadin Deamidated AB IGA(GLA)	Gold		
Gliadin Deamidated AB IGG(GLG)	Gold		
Glomerular Basement Membrane	Gold		
Haptoglobin	Gold		
HSV 1/2	Gold		
IGA	Gold		
IGG	Gold		
IGM	Gold		
Immunofixation ELP	Gold		
Insulin	Gold		
JO1 AB IGG (JO1)	Gold		
Kappa Free Light Chain	Gold		
Lambda Free Light Chain	Gold		
Measles	Gold		
Mitochondrial (M2) AB (MITO)	Gold		
Mumps (IGG)	Gold		
Myeloperoxidase (MPO)AB IGG(MYEB)	Gold		
Proteinase 3 AB (PRA)	Gold		
Ribosome	Gold		
RNP AB IGG (RNPB)	Gold		
Rubella IGG	Gold		
Quanteriferon	Note: 4 special tubes packaged by laboratory		
SCL 70 AB IGG (SCL)	Gold		
Serum Protein ELP	Gold		
SM AB IGG (SMAS)	Gold		
S SA Ro AB IGG (SSAS)	Gold		
S SB La AB IGG (SSBB)	Gold		
Anti-TSH Receptor (TRAb)	Gold		
Tissue Transglutaminase AB IGA (TTAB)	Gold		
Tissue Transblutaminase AB IGG (TTG)	Gold		
Toxo Gondii	Gold		
Varicella Zoster IGG	Gold		
Vitamin D25	Gold		Red

MASS SPECTROMETRY LAB:			
TEST	RECOMMENDED (PREFERRED)	ALSO ACCEPTABLE	
Alcohol Biomarkers (EtG, EtS)	Urine Cup		
Lamotrogine	Red		
Levetiracetam	Red		
Vitamin E	Red		