

**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			Light 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	Gray	HDL	Light Green	Green	Red	Gold	Light Green
Alkaline Phosphatase	Light Green	Green	Red	Gold		HIV AG/AB COMBO	Gold	Green	Red	Lavender	Light Green
Alpha1-Antitrypsin	Light Green	Green	Red			HIV-1,2 Antibody Confirmation	Gold	Green	Red	Lavender	Light Green
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		Light Green	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		Light Green	Sodium (Na)	Light Green		Red	Gold	
Digoxin	Red	Green				Syphilis	Red			Gold	
Dilantin (Phenytoin)	Red	Green				TBI (GFAP/UCH-L1)	Lavender				
Dilantin, Free	Red	Green				T3	Light Green	Green	Red	Gold	
Estradiol	Light Green		Red	Gold		T4	Light Green	Green	Red	Gold	
Everolimus	Lavender					Tacrolimus	Lavender				
Ferritin	Light Green		Red	Gold		Tricyclic Screen	Red	Green			
Folate	Light Green		Red	Gold		Theophylline	Red	Green			
Free PSA	Gold		Red			Tobramycin	Red	Green			
Free T3	Light Green	Green	Red	Gold		Transferrin/TIBC	Light Green	Green	Red	Gold	
Free T4	Light Green	Green	Red	Gold		Triglyceride	Light Green	Green	Red	Gold	
FSH	Light Green	Green	Red	Gold		Troponin-I	Light Green	Green			
Gentamicin	Red	Green				Troponin-I (ED ONLY)		>Green >Use 4mL tube for Direct Delivery			
GGT	Light Green	Green	Red	Gold		TSH	Light Green	Green	Red	Gold	
*GLUCOSE	Gray	Green	Red	Gold	Light Green	TSH (Reflex/Cascade)	Light Green	Green	Red	Gold	
HCG (QUAL)	Gold		Red			Urea Nitrogen (BUN)	Light Green	Green	Red	Gold	
HCG (QUANT)	Light Green	Green	Red	Gold		Uric Acid	Light Green	Green	Red	Gold	
Hepatitis A Ab (IGG)	Gold		Red			Valproic Acid	Red	Green			
Hepatitis A Ab (IGM)	Gold	Green	Red		Light Green	Vancomycin	Red	Green			
Hepatitis B Core Ab (Tot)	Gold	Green	Red		Light Green	Vitamin D	Gold		Red		
Hepatitis B Core Ab (IgM)	Gold	Green	Red		Light Green						

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

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):

5 mL
5 mL
6 mL
6.0 or 3.0 mL

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 CHEMISTY 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-Thyroperoxidase 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)			
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		

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