

## Complete - Temperature guide SPECIMEN STORAGE AND TRANSPORT

Temperature guide only – refer to *Laboratory Service Manual* for complete collection and storage information.

<b>COLLECTED BY MMC LAB ONLY</b>	<b>A – AMBIENT</b> (room temp)	<b>F – FROZEN</b>	<b>R – REFRIG</b>
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**COLLECTED BY MMC LAB ONLY**

Due to the stringent temperature and time constraints, MMC requests the following tests be collected only at MMC Lab.

Ammonia
Antiphospholipid Ab
Antithrombin III, Functional (Activity),
Chain of Custody Collection, DNA/Urine
Cortisol, Saliva
Cryoglobulin and Cryocrit
Glucose, Cola 1 Hour, Preg
Glucose Tolerance Tests
HIV1 RNA, QN, PCR
Homocysteine
Lactic Acid
Lupus Anticoagulant Evaluation
Platelet Aggregation Study (must be scheduled)
Protein C, Functional (Activity), Plasma

Protein C-Resistance, Activated
Protein S, Functional (Activity), Plasma
Semen Analysis, Fertility
TB Gold (Quantiferon)
Urovision (FISH)
Vitamin A
Vitamin B1
Vitamin B2
Vitamin B6
Vitamin C
Vitamin E (Tocopherol), Serum
Vitamin K1
Von Willebrand Factor Antigen, Plasma
Von Willebrand Panel

**AMBIENT – STORAGE AND TRANSPORT**

ABO, Rh Type/ Antibody Screen, Blood
Activated Partial Thromboplastin Time (APTT), Plasma
Antibody Identification, RBC Antibody, Plasma
Antibody Screen, Indirect Coombs, Plasma
Antibody Titer, Prenatal, Plasma
BCR/ABL Double Fusion, (FISH)
Bordetella Pertussis DFA & Culture
Closure Time, Blood
Coagulation Factor V Mutation (Leiden), Blood
Culture, Abscess, Drainage Specimens, Wounds, Etc.
Culture, Anaerobic Bacteria

Culture, Blood
Culture, Body Fluid or Spinal Fluid
Culture, Ear or Eye
Culture, Fungus
Culture, Group B Strep Only
Culture, Nasal
Culture, Neisseria Gonorrhoeae (GC)
Culture, Throat (all types)
Culture, Urine (must submit in preservative container)
Direct Coombs (Polyspecific) /Newborn Workup
Fetal Hemoglobin (Fetaldex)
Fibrin Split Products, Plasma

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Gastric Occult Blood (Gastrocult)
Hemochromatosis Hereditary (HH) DNA Mutation
HLA - A,B,C Class 1 DNA Typing, PCR-
HLA-B27, Whole Blood
Human Papilloma Virus (HPV), Low/High Risk
KOH Prep
Lactate Dehydrogenase Isoenzyme (LDI), Serum
Microscopic Identification
MTHFR (Methylenetrahydrofolate), DNA, Blood
<b>Obstetric Panel</b> (ABO AND Rh TYPE, ANTIBODY SCREEN, HEP B SURFACE ANTIGEN) - <i>Ambient</i> (CBC & DIFF – AUTO, RPR, RUBELLA IgG) - <i>Refrig</i>
Pap Smear (slides/Thin Prep)

Peripheral Smear, Blood
Pinworm, Perianal
Platelet Antibody IGG Direct, Blood
Prothrombin Gene Analysis (Factor II Mutation)
Prothrombin Time (PT) with (INR)
Rhogam Injection/ Antepartum / Postpartum, Plasma
T & B Cell (Immunocompetence Panel), Blood
T Lymph Helper (CD4) Panel
Tiagabine (Gabitril), Serum
Trichomonas Antigen
"Type & Screen", Blood
Urinalysis With or W/O Microscopic ( <b>must submit in preservative container</b> )

### FROZEN – STORAGE AND TRANSPORT

Adrenocorticotropin (ACTH), Plasma
Catecholamines, Fractionation, Plasma
Coagulation Factor II, Functional (Activity), Plasma
Coagulation Factor IX, Functional, Plasma
Coagulation Factor V, Functional (Activity), Plasma
Coagulation Factor VII, Functional (Activity), Plasma
Coagulation Factor VIII, Functional, Plasma
Coagulation Factor X, Functional (Activity), Plasma
Coagulation Factor Xa, Unfractionated (Heparin)
Coagulation Factor XI, Functional (Activity), Plasma
Coagulation Factor XII, Functional (Activity), Plasma
Complement Total (CH 50), Serum
Cortisol Free, Urine (24 Hr)
C-Peptide, Serum
Cystine, Urine (24 Hr)
Fecal Fat Screen
Fecal Fats Quantitative, (48-72 Hrs), Stool
Gastrin, Serum

Growth Hormone (HGH), Serum
Hepatitis C Viral RNA PCR, Qual / Quan, Serum
Hepatitis C, QNT, RNA, (Heptimax)
Hepatitis C, RNA, Genotype, Gene Sequencing
Herpes Simplex I & II DNA, PCR, CSF
HIV-1 RNA, QNT (PCR), Plasma
Lyme Disease (B. Burgdorferi), DNA-PCR, Fluid
Myoglobin, Urine
Pancreatic Polypeptide, Plasma
Proinsulin, Serum
Prostate-Specific Antigen (PSA), Total & Free, Serum
Prostatic Acid Phosphatase, Serum
Protein C-Resistance, Activated
Renin (Plasma Activity), Plasma
Ristocetin Co-Factor, Plasma
Tetanus Antitoxoid Antibody, Serum
Vasoactive Intestinal Polypeptide (VIP), Plasma

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### REFRIGERATED – STORAGE AND TRANSPORT

17-Ketosteroid, Urine (24 Hr)
5-Hydroxy-Indole-Acetic Acid (5-HIAA) (24 Hr), Urine
A/G - Albumin/Globulin Ratio, Serum
Acetaminophen, Serum
Acetone, Serum
Acetylcholine Recept Binding/ Blocking/ Modulating, Serum
Acid Fast Smear for Mycobacterium
Acute Hepatitis Panel
AFP - Alpha Fetoprotein Tumor Mark (Monoclonal), Serum
Albumin, Serum
Aldolase, Serum
Aldosterone, Serum
Alkaline Phosphatase Isoenzymes, Serum
Alkaline Phosphatase, Serum
Alpha-1-Antitrypsin, Serum / Quantitation
ALT/SGPT - Alanine Aminotransferase Serum
Aminolevulinic Acid, (24 Hr) Urine
Amiodarone, Serum
Amitriptylline (Nortriptyline), Quantitation, Serum
Amylase Isoenzymes
Amylase, Serum / Urine / Body Fluid
ANA - Anti Nuclear Antibody, Serum
Anca Screen with Reflexed Titer
Angiotensin Converting Enzyme
Anti DNA Antibody, Double Strand, Serum
Apolipoprotein A-1/ B, Serum
ASO -Streptococcal Antibodies, Serum
AST/SGOT - Aspartate Aminotransferase Serum
Bacterial Meningitis, CSF/Urine
Basic Metabolic Panel

Bence Jones Screen, Urine
Bilirubin, Total / Conjugated (Direct) / Indirect, Serum
BUN - Blood Urea Nitrogen, Serum
C3/C4 Complement
CA 125 - Cancer Antigen 125, Serum
CA 15-3 - Cancer Antigen 15-3, Serum
CA 19-9 - Carbohydrate Ag 19-9 Serum
CA 27.29, Serum
Calcium, Total / Ionized, Serum / Urine
Candida Antibodies, Serum
Carbamazepine (Tegretol ®), Serum
Carbon Dioxide, Serum
Cardiac Triage Panel
Cardiolipin Antibody IgG, Serum
Catecholamine Fractionation (24 Hr), Urine
CEA - Carcinoembryonic Antigen Serum
Celiac Antibody Disease Panel, Serum
Cell Count (WBC), Body Fluid
Centromere Antibodies, Serum
Ceruloplasmin, Serum
Chlamydia Trachomatis & N. Gonorrhoeae DNA, SDA
Chlamydia Trachomatis DNA, SDA, Urine
Chromium, Plasma
Chromogranin A, Serum
Citrate, (24 Hr) Urine
CK - Creatine Kinase Total / MB Isoenzyme, Plasma
Clomipramine, Serum
Clostridium Difficile Panel, Stool
Coccidioides Antibody, Immunodiffusion, Serum
Complete Blood Count (CBC) (all varieties)
Comprehensive Metabolic Panel

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Copper, Whole Blood
Cortisol, Serum
C-Reactive Protein (CRP), Quant /High Sensitivity, Serum
Creatinine Serum /Urine
Cryptococcal Antigen, CSF
Cryptococcal Antigen, Serum
Cryptosporidium Antigen, Feces
Culture, Acid Fast Bacillus(AFB), Tuberculosis (TB), Body Fluids, Sputum, Tissue or Urine
Culture, Chlamydia
Culture, Herpes Simplex Virus (HSV)
Culture, Sputum
Culture, Stool
Culture, Viral
Cyclosporin, Blood (HPLC)
Cytomegalovirus Antibody, IgG & IgM, Serum
D-Dimer, Plasma
DHEA-S - Dehydroepiandrosterone Serum
Diazepam, Quant, Serum
Digoxin, Serum
Disopyramide (Norpace), Serum
Drug Screens (ALL)
EBV - Epstein-Barr Virus Antibody Panel
Ehrlichia Chaffeensis Antibody, Serum
Electrolyte Panel, Serum / Urine
ENA - Extractable Nuclear Antigens SM & SM/RNP Antibodies, Serum
Eosinophil Count, Total
EPO - Erythropoietin Serum
Epstein-Barr Virus (EBV) Early Antigen /Nuclear Antigen/ IgG & IgM Serum
Erythrocyte Sedimentation Rate (ESR)
Estradiol, Serum
Estriol, Serum
Estrogen, Total, Serum

Ethanol, Serum
Ethosuxamide, Serum
Ethyl Alcohol, (Legal), Blood
Ferritin, Serum
Fetal Fibronectin
Fibrinogen, Plasma
Folate, Serum
Fructosamine, Serum
FSH - Follicle Stimulating Hormone Serum
FTA- ABS - Fluorescent Treponemal Antibody Serum
Gabapentin (Neurontin), Plasma
Gentamicin, Serum
GGT - Gamma-Glutamyltransferase Serum
Giardia Antigen, Feces
Gliadin Antibody (IgG & IgA), Serum
Glucose, 2-Hr Postprandial, Plasma
Glucose, Plasma
Gonorrhoeae, DNA, SDA
Haptoglobin, Serum
HE - Human Granulocyte Ehrlichiosis Serum
Heavy Metal Panel, Blood
Hematocrit, Blood
Hemoglobin A1C, Blood
Hemoglobin, Blood
Hemoglobinopathy Evaluation, Blood
Hepatic Function Panel
Hepatitis A (IgM) Antibody, Serum
Hepatitis B Core (HBcAb) Antibody/ IgM Serum
Hepatitis B Surface (HBsAb) / (HBsAg), Serum
Hepatitis C Antibody, Serum
Herpes Simplex I & 2 IgG Antibody
Herpesvirus (HHV-6) Antibodies (IgG, IgM), Serum

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Histoplasma Antibody Panel, Serum
HIV-1 Antibody, Western Blot, Serum
HIV1/HIV2 (Human Immunodeficiency Virus), Serum
H-Pylori - Helicobacter Pylori Antibody, IgG Screen
Human Chorionic Gonadatropin Total / Nonpregnant
HVA - Homovanillic Acid Urine (24 Hr)
IgA - Immunoglobulin A serum
IgA / IgG/ IgM / IgE - Immunoglobulins Serum
IgG Subclasses, Serum
Imipramine & Desipramine
Immuno-electrophoresis (Immunofixation), Serum / Urine
Influenza Type A & B, Antibody / Antigen, Serum
Insulin, Serum
Iron / Total Iron-Binding Capacity (TIBC), Serum
Isopropanol, Quantitative, Serum
Lamotrigine (Lamictal)
Latex Sensitivity IgE
LD - Lactate Dehydrogenase, Serum /Body Fluid
LDL - Low Density Lipoprotein Direct, Serum
Lead, Blood
Legionella Antibody, IgG or IgM
Legionella Antigen, Urine
Leptospira Antibody, Serum
LH - Luteinizing Hormone Serum
Lipase, Serum
Lipid Panel
Lipid Phenotype Electrophoresis
Lipoprotein A, Serum
Lithium, Serum
Liver-Kidney Microsomal Antibody, Serum
Lyme Disease (B. Burgdorferi) (ALL)
Magnesium, Serum / Urine
Malaria Smear
Maternal Screen (Alpha-Fetoprotein),

Metanephrines (24 Hr), Urine
Methylmalonic Acid, Serum
Microalbumin, Urine
Mitochondrial Antibodies, Serum
Mono Test / Titer, Serum
MRSA Detection by Polymerase Chain Reaction (PCR)
Multiple Sclerosis, Profile 2
Mumps IgG Antibody, Serum
Mycoplasma Pneumoniae Antibody IgG & IgM
Myelin Basic Protein, CSF
N-Telopeptide-Collagen Cross-Linked, (24 Hr), Urine
Occult Blood, Stool
Oligoclonal Banding, CSF and Serum
Osmolality, Serum/Urine
Oxalate (24 Hr), Urine
Parvovirus B19 Ab (IgG, IgM)
pH, Stool
Phenobarbital, Serum
Phenytoin (Dilantin®) Total, Plasma
Phosphorus, Serum / Urine
Platelet Count, Blood
Potassium, Serum / Urine
Prealbumin, Serum
Pregnancy Test, Serum/Urine
Primidone (Mysoline), Serum
Pro-Brain Natriuretic Peptide
Procainamide and NAPA, Serum
Progesterone, Serum
Prolactin, Serum
Protein Electrophoresis, Serum / Urine
Protein, Total, Serum / Urine / Body Fluid
Protein/Creatinine Ratio, Random Urine
PSA- Prostate-Specific Antigen Serum
Pyruvate, Blood

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Quinidine, Serum
RAST® Cereal Profile
RAST® Child Food Profile
RAST® Grass Profile
RAST® Non-Seasonal Profile
RAST® Nut Profile
RAST® Pediatric Profile (Dairy)
RAST® Screening Profile
RAST® Seafood Profile
RAST® Weed Profile
Renal Function Panel
Reticulocytes, Blood
Rheumatoid Factor, Serum
Rocky Mountain Spotted Fever Ab (IgG, IgM), Serum
Rotavirus Direct Antigen, Feces
RPR - Rapid Plasma Reagin, Serum
RSV - Respiratory Syncytial Virus Antigen / Ab Testing
Rubella Antibodies, IgG Only, Serum
Rubeola (Measles) Antibodies, IgG / IgM, Serum
Salicylate, Serum
Scleroderma Antibody
Selenium, Blood
Semen Analysis, Post Vasectomy
Sickle Cell Screen, Blood
Smooth Muscle Antibodies, Serum
Sodium, Serum / Urine
SS-A and SS-B -Sjogren's Antibodies, Serum
Synovial Fluid Analysis/Crystals
T3 (Triiodothyronine) Total, Serum

T3 (Triiodothyronine) Uptake, Serum
T3 Free, Non-Dialysis, Serum
T4 (Thyroxine), Total / Free, Serum
Testosterone, Free / Total, / High Sensitivity, Serum
Theophylline, Serum
Thyroglobulin, Serum
Thyroid Antibody Group, Serum
Thyroid Peroxidase Antibody
Tobramycin
Toxoplasma Antibody Panel, IgG / IgM, Serum
Transferrin, Serum
Transglutaminase Antibody (IgA)
Triglycerides, Serum
Troponin-T, Serum
TSH -Thyroid Stimulating Hormone, Third Generation /Ultra Sensitive Serum
Urea Nitrogen, Urine (24 Hr)
Uric Acid (24 Hr), Serum / Urine
Urine Drug Screen (ALL)
Valproic Acid, Serum (Depakene® /Depakote®)
Vancomycin, Serum
VDRL, CSF
Vitamin B12, Serum
Vitamin D, 25-Hydroxy, Serum
VMA - Vanillylmandelic Acid, 24-Hr Urine
VZV - Varicella-Zoster Virus, IgG / IgM Antibodies, Serum
West Nile Ab, IgG / IgM, Serum
White Blood Count (WBC) /with Diff, Blood / Stool
Zinc, Plasma