

Diagnostic Tests

Molecular Genetics					
Test Type	Specimen	Volume	Specimen Container	Storage	TAT
Whole Exome Sequencing (Screening)	Blood	4ml (2 tubes required)	EDTA	Room Temperature or refrigerated (never frozen)	30-45 days
Whole Exome Sequencing (Diagnostic)	Blood	4ml (2 tubes required)	EDTA	Room Temperature or refrigerated (never frozen)	30-45 days
Whole Exome Sequencing (Prognostic)	Buccal Swab	2ml	UTM	Room Temperature	30-45 days
Telomere	Blood	2ml	Citrate	Room Temperature or refrigerated (never frozen)	21-30 days

Karyotype	Blood	4ml (2 tubes required)	Heparin	Room Temperature or refrigerated (never frozen)	30-40 days
Chromosome Microarray	Blood	4ml (2 tubes required)	Sodium Heparin	Room Temperature or refrigerated (never frozen)	21-30 days
Whole Mitochondrial Genome Sequencing	Blood	2ml (2 tubes required)	EDTA (Lavender top)	Room Temperature or refrigerated (never frozen)	21-30 days
Y chromosome Deletion	Blood	2ml (2 tubes required)	Sodium Heparin	Room Temperature or refrigerated (never frozen)	21-30 days

Clinical Chemistry

Test Type	Specimen	Volume	Specimen Container	Storage	TAT
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Lipid Profile

Cholesterol	Blood	2ml	Serum	Refrigerate	1-2 days
Triglycerides	Blood	2ml	Serum	Refrigerate	1-2 days
HDL	Blood	2ml	Serum	Refrigerate	1-2 days
LDL	Blood	2ml	Serum	Refrigerate	1-2 days
VLDL	Blood	2ml	Serum	Refrigerate	1-2 days

Liver Function Test

Total Protein	Blood	2ml	Serum	Refrigerate	1-2 days
Globulin	Blood	2ml	Serum	Refrigerate	1-2 days
Albumin	Blood	2ml	Serum	Refrigerate	1-2 days
Alkaline Phosphatase	Blood	2ml	Serum	Refrigerate	1-2 days
AST/SGOT	Blood	2ml	Serum	Refrigerate	1-2 days
ALT/SGPT	Blood	2ml	Serum	Refrigerate	1-2 days
GGT	Blood	2ml	Serum	Refrigerate	1-2 days
Total and Direct Bilirubin	Blood	2ml	Serum	Refrigerate	1-2 days

Kidney Function Test

Blood Urea Nitrogen	Blood	2ml	Serum	Refrigerate	1-2 days
Creatinine	Blood	2ml	Serum	Refrigerate	1-2 days
Blood Uric Acid	Blood	2ml	Serum	Refrigerate	1-2 days
Calcium	Blood	2ml	Serum	Refrigerate	1-2 days
Phosphorous	Blood	2ml	Serum	Refrigerate	1-2 days
Sodium	Blood	2ml	Serum	Refrigerate	1-2 days
Potassium	Blood	2ml	Serum	Refrigerate	1-2 days
Chloride	Blood	2ml	Serum	Refrigerate	1-2 days

Diabetes Profile

Fasting Glucose	Blood	2ml	Serum	Refrigerate	1-2 days
HbA1C	Blood	2ml	Serum	Refrigerate	1-2 days
Microalbuminuria	Blood	2ml	Serum	Refrigerate	1-2 days

Hematology

Test Type	Specimen	Volume	Specimen Container	Storage	TAT
Complete Blood Count	Whole Blood	2ml (fill tube to capacity)	EDTA (Lavender top)	Room temperature	1-2 days
Erythrocyte Sedimentation Rate (ESR)	Whole Blood	2ml	Lavender top (EDTA)	Refrigerate	1-2 days
Ferritin	Serum	0.03ml	Red top tube or Gel barrier tube	Refrigerate	1-2 days
Reticulocyte Blood	Whole Blood	0.5ml	Lavender top (EDTA)	Refrigerate	1-2 days
Transferrin Saturation	Serum	0.5 ml	Red top tube or Gel barrier tube	Refrigerate	1-2 days
Iron and Total Iron binding capacity (TIBC)	Serum	0.5 ml	Red top tube or Gel barrier tube	Refrigerate	1-2 days

Endocrinology

Test Type	Specimen	Volume	Specimen Container	Storage	TAT
Free T3 (Triiodothyronine Free)	Serum	0.5ml	Red top tube or gel barrier tube	Refrigerate	1 day
Free T4 (Thyroxine Free)	Serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1 day
Total T3	serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1 day
Total T4	Serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1 day
TSH	Serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1 day
Parathyroid Hormone	Serum/Plasma	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1 day

Fertility and Prenatal					
Test Type	Specimen	Volume	Specimen Container	Storage	TAT
Anti Mullerian Hormone (AMH)	Serum	0.5 ml	red top tube or gel barrier tube	Refrigerate	1-2 days
BHCG	Serum	1 ml	Red top tube or Gel barrier tube	Refrigerate	5-7 days
Estradiol	Serum	0.3 ml	red top tube or gel barrier tube	Refrigerate	1-2 days
FSH (Follicle-stimulating Hormone)	Serum	0.3 ml	red top tube or gel barrier tube	Refrigerate	1-2 days
LH (Leutinizing Hormone)	Serum	1 ml	red top tube or gel barrier tube	Refrigerate	1-2 days
Prolactin	Serum	0.3 ml	Red top tube or Gel barrier tube	Refrigerate	1-2 days
Progesterone	Serum	0.3 ml	Red top tube or Gel barrier tube	Refrigerate	1-2 days
Testosterone	Serum	0.3 ml	red top tube or gel barrier tube	Refrigerate	1-2 days
Infectious Diseases					
Test Type	Specimen	Volume	Specimen Container	Storage	TAT
HIV - Screen	Serum	5 ml	Gel barrier tube	Refrigerate	1-2 days
HBsAg	Serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
HBsAb	Serum	0.5 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
HCV	Serum	1 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
HAV	Serum	1 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Tumor Markers					
Test Type	Specimen	Volume	Specimen Container	Storage	TAT
AFP	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
CA 15-3	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days

CA 19-9	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
CA 125	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
CEA	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
TOTAL PSA	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
FREE PSA	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
CA 72-4	Serum	1 ml	Red top tube or gel barrier tube	Room temperature	5-7 days

Vitamins

Test Type	Specimen	Volume	Specimen Container	Storage	TAT
Vitamin A	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin B1	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin B2	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin B6	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin B12	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin D (1.25 cholecalciferol)	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin D 25 Cholecalciferol	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days
Vitamin E	Serum	0.3 ml	Red top tube or gel barrier tube	Refrigerate	1-2 days