Complete and print.

Reset Form

MAYO CLINIC LABORATORIES

Biochemical Genetics Test Request

Client Information (required)

Client Name		
Client Account No.		
Client Phone	Client Order No.	
Street Address		
City	State	ZIP Code

Submitting Healthcare Professional (required)

Submitting Healthcare Professional Name (Last, First)	
Title/Credentials	
Phone (with area code)	Fax* (with area code)
National Provider Identification (NPI)	
Email**	

**Any communication sent via email will comply with applicable HIPAA regulations.*
**Fax number given must be from a fax machine that complies with applicable HIPAA regulation.*

Note: It is the client's responsibility to maintain documentation of the order.

New York State Patients: Informed Consent for Genetic Testing

"I hereby confirm that informed consent has been signed by an individual legally authorized to do so and is on file with this office or the individual's provider's office."

Signature ▶

Note: Test requests without a signature will not be performed.

Patient Information (required)

Patient ID (Medical Record No.)		
Patient Name (Last, First Middle)		
Sex ☐ Male ☐ Female	Birth Date (mm-dd-yyyy)	
Collection Date (mm-dd-yyyy)	Time	☐ am ☐ pm

Reason for Testing (required)

Has molecular/DNA testing already been performed?

☐ Yes ☐ No If Yes, results:

Gene_____ Variant_____

Gene_____ Variant_____

For molecular testing options, see www.MayoClinicLabs.com

MCL Internal Use Only

Ship specimens to:
Mayo Clinic Laboratories
3050 Superior Drive NW
Rochester, MN 55905

Customer Service: 800-533-1710

Visit www.MayoClinicLabs.com for the most up-to-date test and shipping information.

Billing Information
- An itemized invoice will be sent each month.
- Payment terms are net 30 days.

Call the Business Office with billing-related questions:
800-447-6424 (US and Canada)
507-266-5490 (outside the US)

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Patient Information (required)

Patient ID (Medical Record No.)	Client Account No.
Patient Name (Last, First Middle)	Client Order No.
Birth Date (mm-dd-yyyy)	

AMINO ACID METABOLISM

☐	AAQP	Amino Acids, Quantitative, Plasma
☐	AAPD	Amino Acids, Quantitative, Random, Urine
☐	AACSF	Amino Acids, Quantitative, Spinal Fluid
☐	TRYPP	Tryptophan, Plasma
☐	TRYPU	Tryptophan, Random, Urine

Cystinuria

☐	CYSGP	Cystinuria Gene Panel
☐	CYSQN	Cystinuria Profile, Quantitative, 24 Hour, Urine
☐	CYSR	Cystinuria Profile, Quantitative, Random, Urine

Homocystinuria

☐	CMMPP	Cobalamin, Methionine, and Methylmalonic Acid Pathways, Plasma
☐	CMMPS	Cobalamin, Methionine, and Methylmalonic Acid Pathways, Serum
☐	HCYSP	Homocysteine, Total, Plasma
☐	HCYSS	Homocysteine, Total, Serum

Maple Syrup Urine Disease

☐	ALLOI	Allo-isoleucine, Blood Spot
☐	AAMSD	Amino Acids, Maple Syrup Urine Disease Panel, Plasma
☐	MSUSC	Branched-Chain Amino Acids, Self-Collect, Blood Spot
☐	MSUDP	Maple Syrup Urine Disease Gene Panel

Phenylketonuria

☐	PKUBS	Phenylalanine and Tyrosine, Blood Spot
☐	PHEGP	Phenylalanine Disorders Gene Panel
☐	PKU	Phenylalanine and Tyrosine, Plasma
☐	PKUSC	Phenylalanine and Tyrosine, Self-Collect, Blood Spot

Tyrosinemia

☐	TYRGP	Tyrosine Disorders Gene Panel
☐	TYRBS	Tyrosinemia Follow up Panel, Blood Spot
☐	TYRSC	Tyrosinemia Follow up panel, Self-Collect, Blood Spot
☐	SUAC	Succinylacetone, Blood Spot

CARBOHYDRATE METABOLISM

Congenital Disorders of Glycosylation

☐	CDG	Carbohydrate Deficient Transferrin for Congenital Disorders of Glycosylation, Serum
☐	CDGGP	Congenital Disorders of Glycosylation Gene Panel
☐	CDGN	Congenital Disorders of N-Glycosylation, Serum
☐	OLIGU	Oligosaccharide Screen, Random, Urine
☐	PMMIL	Phosphomannomutase and Phosphomannose Isomerase, Leukocytes
☐	SORBU	Sorbitol and Mannitol, Quantitative, Random, Urine

Galactosemia

☐	GATOL	Galactitol, Quantitative, Urine
☐	GALK	Galactokinase, Blood
☐	GAL1P	Galactose-1-Phosphate, Erythrocytes
☐	GALT	Galactose-1-Phosphate Uridyltransferase, Blood
☐	GALTP	Galactose-1-Phosphate Uridyltransferase Biochemical Phenotyping, Erythrocytes
☐	GALP	Galactose, Quantitative, Plasma
☐	GALZ	Galactosemia, GALT Gene, Full Gene Analysis
☐	GCT	Galactosemia Reflex, Blood
☐	GALE	Uridine Diphosphate-Galactose 4' Epimerase, Blood

Transaldolase and Ribose-5-phosphate (RPI) Deficiencies

☐	TALDO	Polyols, Quantitative, Urine

CHOLESTATIC LIVER DISEASE

☐	CHLGP	Cholestasis Gene Panel

CHOLESTEROL BIOSYNTHESIS AND TRANSPORT

☐	CTXWB	Cerebrotendinous Xanthomatosis, Blood
☐	CTXBS	Cerebrotendinous Xanthomatosis, Blood Spot
☐	CTXP	Cerebrotendinous Xanthomatosis, Plasma
☐	HSMBS	Hepatosplenomegaly Panel, Blood Spot
☐	HSMWB	Hepatosplenomegaly Panel, Blood
☐	HSMP	Hepatosplenomegaly Panel, Plasma
☐	OXYWB	Oxysterols, Blood
☐	OXYBS	Oxysterols, Blood Spots
☐	OXNP	Oxysterols, Plasma
☐	SLO	Smith-Lemli-Opitz Screen, Plasma
☐	DHCRZ	Smith Lemli Opitz Syndrome, DHCR7 Gene, Full Gene Analysis
☐	STER	Sterols, Plasma

CONGENITAL ADRENAL HYPERPLASIA

☐	CAH2T	Congenital Adrenal Hyperplasia Newborn Screen, Blood Spot
☐	CAH21	Congenital Adrenal Hyperplasia (CAH) Profile for 21-Hydroxylase Deficiency, Serum
☐	CYPZ	21-Hydroxylase Gene, CYP21A2, Full Gene Analysis

CONGENITAL LACTIC ACIDOSIS

☐	CLADP	Congenital Lactic Acidosis Gene Panel

CREATINE DISORDERS

☐	CRDPP	Creatine Disorders Panel, Plasma
☐	CRDPU	Creatine Disorders Panel, Random, Urine

CUSTOM GENE PANEL

☐	CGPH	Custom Gene Panel, Hereditary, Next-Generation Sequencing Gene List ID (if known) or Genes Requested for Testing:

FAMILIAL AMYLOIDOSIS

☐	TTRX	Amyloidosis, Transthyretin-Associated Familial, Reflex, Blood
☐	TTRZ	*TTR* Gene, Full Gene Analysis

FATTY ACID METABOLISM (BETA-OXIDATION)

☐	ACRN	Acylcarnitines, Quantitative, Plasma
☐	ACRNS	Acylcarnitines, Quantitative, Serum
☐	AGU20	Acylglycines, Quantitative, Random, Urine
☐	C4U	C4 Acylcarnitine, Quantitative, Random, Urine
☐	CARN	Carnitine, Plasma
☐	CARNS	Carnitine, Serum
☐	CARNU	Carnitine, Random, Urine
☐	HFAOP	Fatty Acid Oxidation Gene Panel
☐	FAO	Fatty Acid Oxidation Probe Assay, Fibroblast Culture
☐	FAPCP	Fatty Acid Profile, Comprehensive (C8-C26), Serum
☐	FAPM	Fatty Acid Profile, Mitochondrial (C8-C18), Serum
☐	MCADZ	Medium-Chain Acyl-CoA Dehydrogenase (MCAD) Deficiency Full Gene Analysis
☐	OAU	Organic Acids Screen, Random, Urine
☐	VLCZ	Very Long Chain Acyl-CoA Dehydrogenase Deficiency, Full Gene Analysis

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ORGANIC ACID METABOLISM

- ☐ AGU20 Acylglycines, Quantitative, Random, Urine
- ☐ 3MGAP 3-Methylglutaconic Aciduria Gene Panel
- ☐ C5OHU C5-OH Acylcarnitine, Quantitative, Random, Urine
- ☐ KETGP Ketone Disorders Gene Panel
- ☐ OAU Organic Acids Screen, Random, Urine
- ☐ OAUS Organic Acid Screen, Urine Spot

2-Hydroxyglutaric Aciduria

- ☐ 2OHGP 2-Hydroxyglutaric Aciduria Gene Panel
- ☐ 2HGA 2-Hydroxyglutaric Acid Chiral Analysis, Quantitative, Random, Urine

Biotinidase Deficiency

- ☐ BIOTS Biotinidase, Serum
- ☐ BTDZ Biotinidase Defiency, BTD Full Gene Analysis

Glutaric Acidemia

- ☐ C5DCU C5-DC Acylcarnitine, Quantitative, Random, Urine
- ☐ GA2P Glutaric Aciduria Type II Gene Panel
- ☐ HGEM Hydroxyglutaric Acids, Glutaric Acid, Ethylmalonic Acid, and Methylsuccinic Acid, Blood Spot
- ☐ HGEMP Hydroxyglutaric Acids, Glutaric Acid, Ethylmalonic Acid, and Methylsuccinic Acid, Plasma
- ☐ HGEMS Hydroxyglutaric Acids, Glutaric Acid, Ethylmalonic Acid, and Methylsuccinic Acid, Serum
- ☐ TRYPP Tryptophan, Plasma
- ☐ TRYPU Tryptophan, Random, Urine

Methylmalonic Acidemia/Cobalamin/ Propionic Acidemia

- ☐ CMMPP Cobalamin, Methionine, and Methylmalonic Acid Pathways, Plasma
- ☐ CMMPS Cobalamin, Methionine, and Methylmalonic Acid Pathways, Serum
- ☐ MMAGP Methylmalonic Aciduria Gene Panel
- ☐ MPAGP Methylmalonic Aciduria-Propionic Aciduria Combined Gene Panel
- ☐ MMAP Methylmalonic Acid, Quantitative, Plasma
- ☐ MMAS Methylmalonic Acid, Quantitative, Serum
- ☐ MMAU Methylmalonic Acid, Quantitative, Urine

GLYCOGEN STORAGE DISORDERS

- ☐ GSDGP Glycogen Storage Disease Gene Panel

HYPEROXALURIA

- ☐ HYOX Hyperoxaluria Panel, Random, Urine
- ☐ RSCGP Nephrocalcinosis, Nephrolithiasis, and Renal Electrolyte Imbalance Gene Panel

LYSOSOMAL METABOLISM AND STORAGE DISORDERS

- ☐ CTSU Ceramide Trihexosides and Sulfatides, Random, Urine
- ☐ HSMWB Hepatosplenomegaly Panel, Blood
- ☐ HSMP Hepatosplenomegaly Panel, Plasma
- ☐ PLSD Lysosomal and Peroxisomal Storage Disorders Screen, Blood Spot
- ☐ LSDGP Lysosomal Storage Disease Gene Panel
- ☐ LSDS Lysosomal Storage Disorders Screen, Random, Urine
- ☐ LSD6W Lysosomal Storage Disorders, Six-Enzyme Panel, Leukocytes
- ☐ MPSBS Mucopolysaccharidosis, Blood Spot
- ☐ MPSQU Mucopolysaccharides Quantitative, Random, Urine
- ☐ MP8BS Mucopolysaccharidoses, Eight-Enzyme Panel, Blood Spot
- ☐ MP9W Mucopolysaccharidoses, Nine-Enzyme Panel, Leukocytes
- ☐ OLIGU Oligosaccharide Screen, Random, Urine
- ☐ OXNP Oxysterols, Plasma

Fabry Disease

- ☐ FABRZ Fabry Disease, Full Gene Analysis
- ☐ AGABS Alpha-Galactosidase, Blood Spot
- ☐ AGAW Alpha-Galactosidase, Leukocytes
- ☐ AGAS Alpha-Galactosidase, Serum
- ☐ CTSU Ceramide Trihexosides and Sulfatides, Random, Urine
- ☐ LGB3S Globotriaosylsphingosine, Serum

Fucosidosis

- ☐ FUCW Alpha-Fucosidase, Leukocytes

Gaucher Disease

- ☐ GBAW Beta-Glucosidase, Leukocytes
- ☐ GBAZ Gaucher Disease, Full Gene Analysis
- ☐ GPSYW Glucopsychosine, Blood
- ☐ GPSY Glucopsychosine, Blood Spot
- ☐ GPSYP Glucopsychosine, Plasma

GM1 Gangliosidosis

- ☐ BGA Beta-Galactosidase, Leukocytes
- ☐ MPS4B Mucopolysaccharidosis IV Enzyme Panel, Blood Spot
- ☐ MPS4W Mucopolysaccharidosis IV Enzyme Panel, Leukocytes

Krabbe Disease

- ☐ GALCW Galactocerebrosidase, Leukocytes
- ☐ KRABZ Krabbe Disease, Full Gene Analysis and Large (30 kb) Deletion
- ☐ PSY Psychosine, Blood Spot
- ☐ PSYCF Psychosine, Spinal Fluid
- ☐ PSYR Psychosine, Whole Blood

Lysosomal Acid Lipase Deficiency

- ☐ LALB Lysosomal Acid Lipase, Blood
- ☐ LALBS Lysosomal Acid Lipase, Blood Spot

Mannosidosis

- ☐ MANN Alpha-Mannosidase, Leukocytes

Metachromatic Leukodystrophy

- ☐ ARSU Arylsulfatase A, 24 Hour, Urine
- ☐ ARSAW Arylsulfatase A, Leukocytes
- ☐ CTSU Ceramide Trihexosides and Sulfatides, Random, Urine

Mucopolysaccharidoses (MPS)

- ☐ MPSQU Mucopolysaccharides Quantitative, Random, Urine
- ☐ MPSER Mucopolysaccharides Quantitative, Serum
- ☐ MPSWB Mucopolysaccharidosis, Blood
- ☐ MPSBS Mucopolysaccharidosis, Blood Spot

MPS Type I (Hurler/Scheie syndrome)

- ☐ IDUAW Alpha-L-Iduronidase, Leukocytes
- ☐ MPS1Z Hurler Syndrome, Full Gene Analysis

MPS Type II (Hunter syndrome)

- ☐ MPS2Z Hunter Syndrome, Full Gene Analysis
- ☐ I2SB Iduronate-2-Sulfatase, Blood Spot
- ☐ I2SWB Iduronate-2-Sulfatase, Leukocytes

MPS Type III (Sanfilippo syndrome)

- ☐ MPS3B Mucopolysaccharidosis III, Three-Enzyme Panel, Blood Spot
- ☐ MPS3W Mucopolysaccharidosis III, Four-Enzyme Panel, Leukocytes

MPS Type IV (Morquio syndrome)

- ☐ BGA Beta-Galactosidase, Leukocytes
- ☐ MPS4B Mucopolysaccharidosis IV Enzyme Panel, Blood Spot
- ☐ MPS4W Mucopolysaccharidosis IV Enzyme Panel, Leukocytes

MPS VI (Maroteaux-Lamy syndrome)

- ☐ ARSBB Arylsulfatase B, Blood Spot
- ☐ ARSBW Arylsulfatase B, Leukocytes

MPS VII (Sly syndrome)

- ☐ GUSBW Beta-Glucuronidase, Leukocytes
- ☐ GUSBB Beta-Glucuronidase, Blood Spot

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Multiple Sulfatase Deficiency

- ☐ MSDBS Multiple Sulfatase Deficiency, Blood Spot
- ☐ MSDW Multiple Sulfatase Deficiency, Leukocytes

Niemann-Pick Types A and B

- ☐ ASMW Acid Sphingomyelinase, Leukocytes
- ☐ OXNP Oxysterols, Plasma

Niemann-Pick Type C

- ☐ OXNP Oxysterols, Plasma

Neuronal Ceroid Lipofuscinoses

- ☐ NCLGP Neuronal Ceroid Lipofuscinosis (Batten Disease) Gene Panel
- ☐ NCLBS Neuronal Ceroid Lipofuscinosis, Two-Enzyme Panel, Blood Spot
- ☐ NCLW Neuronal Ceroid Lipofuscinosis, Two-Enzyme Panel, Leukocytes

Pompe Disease

- ☐ GAAW Acid Alpha-Glucosidase, Leukocytes
- ☐ GAAZ Pompe Disease Full Gene Analysis
- ☐ HEX4 Glucotetrasaccharides, Random, Urine
- ☐ PDBS Pompe Disease, Blood Spot

Tay-Sachs and Sandhoff Diseases

- ☐ NAGW Hexosaminidase A and Total Hexosaminidase, Leukocytes
- ☐ NAGS Hexosaminidase A and Total Hexosaminidase, Serum
- ☐ NAGR Hexosaminidase A and Total, Leukocytes/Molecular Reflex, Whole Blood
- ☐ MUGS Hexosaminidase A, Serum
- ☐ HEXBZ Sandhoff Disease, HEXB Gene, Full Gene Analysis
- ☐ HEXAZ Tay-Sachs Disease, HEXA Gene, Full Gene Analysis

MITOCHONDRIAL DISEASES

- ☐ Q10 Coenzyme Q10, Reduced and Total, Plasma
- ☐ TQ10 Coenzyme Q10, Total, Plasma
- ☐ FAPM Fatty Acid Profile, Mitochondrial (C8-C18), Serum
- ☐ CMITO Combined Mitochondrial Full Genome and Nuclear Gene Panel
- ☐ DMITO Mitochondrial DNA Deletion Heteroplasmy, ddPCR
- ☐ GDF15 Growth Differentiation Factor 15, Plasma
- ☐ LAPYP Lactate Pyruvate Panel, Plasma
- ☐ MITOP Mitochondrial Full Genome Analysis, Next-Generation Sequencing (NGS)
- ☐ MMPP Mitochondrial Metabolites, Plasma
- ☐ NMITO Nuclear Mitochondrial Gene Panel, Next-Generation Sequencing
- ☐ OAU Organic Acids Screen, Random, Urine
- ☐ PYRC Pyruvate, Spinal Fluid
- ☐ PYR Pyruvic Acid, Blood

NEUROLOGIC DISORDERS

- ☐ FFRWB Friedreich Ataxia, Frataxin, Quantitative, Blood
- ☐ FFRBS Friedreich Ataxia, Frataxin, Quantitative, Blood Spot
- ☐ AFXN Friedreich Ataxia, Repeat Expansion Analysis
- ☐ SORD Sorbitol and Xylitol, Quantitative, Random, Urine

NEWBORN SCREENING

Screening Panels

- ☐ LDALD Lysosomal and Peroxisomal Disorders Newborn Screen, Blood Spot
- ☐ SNS Supplemental Newborn Screen, Blood Spot

Second Tier Tests

- ☐ ALLOI Allo-isoleucine, Blood Spot
- ☐ CAH2T Congenital Adrenal Hyperplasia Newborn Screen, Blood Spot
- ☐ GPSY Glucopsychosine, Blood Spot
- ☐ HCMM Homocysteine (Total), Methylmalonic Acid, and Methylcitric Acid, Blood Spot
- ☐ HGEM Hydroxyglutaric Acids, Glutaric Acid, Ethylmalonic Acid, and Methylsuccinic Acid, Blood Spot
- ☐ LPCBS Lysophosphatidylcholines, LC MS/MS, Blood Spot
- ☐ MPSBS Mucopolysaccharidosis, Blood Spot
- ☐ OXYBS Oxysterols, Blood Spot
- ☐ PD2T Pompe Disease Second-Tier Newborn Screening, Blood Spot
- ☐ PSY Psychosine, Blood Spot
- ☐ SUAC Succinylacetone, Blood Spot

PEROXISOMAL BIOGENESIS & METABOLISM

- ☐ BAIPD Bile Acids for Peroxisomal Disorders, Serum
- ☐ POXP Fatty Acid Profile, Peroxisomal (C22-C26), Plasma
- ☐ POX Fatty Acid Profile, Peroxisomal (C22-C26), Serum
- ☐ PDGP Peroxisomal Disorder Gene Panel
- ☐ PIPA Pipecolic Acid, Serum
- ☐ PIPU Pipecolic Acid, Random, Urine
- ☐ PGRBC Plasmalogens, Blood
- ☐ PGDBS Plasmalogens, Blood Spot
- ☐ XALDZ X-Linked Adrenoleukodystrophy, Full Gene Analysis

PORPHYRIAS

Urine

- ☐ ALAUR Aminolevulinic Acid, Urine
- ☐ PBGU Porphobilinogen, Quantitative, Random, Urine
- ☐ PQNU Porphyrins, Quantitative, 24 Hour, Urine
- ☐ PQNRU Porphyrins, Quantitative, Random, Urine

Plasma

- ☐ PBALP Porphobilinogen and Aminolevulinic Acid, Plasma
- ☐ PTP Porphyrins, Total, Plasma

Fecal

- ☐ FQPPS Porphyrins, Feces

Blood

- ☐ PEWE Porphyrins Evaluation, Washed Erythrocytes
- ☐ PEE Porphyrins Evaluation, Whole Blood
- ☐ PPFWE Protoporphyrins, Fractionation, Washed Erythrocytes
- ☐ PPFE Protoporphyrins, Fractionation, Whole Blood

Enzymes

- ☐ PBGDW Porphobilinogen Deaminase, Washed Erythrocytes
- ☐ PBGD_ Porphobilinogen Deaminase, Whole Blood
- ☐ UPGC Uroporphyrinogen III Synthase (Co-Synthase), Erythrocytes
- ☐ UPGDW Uroporphyrinogen Decarboxylase, Washed Erythrocytes
- ☐ UPGD Uroporphyrinogen Decarboxylase, Whole Blood

Molecular

- ☐ APGP Acute Porphyria Gene Panel
- ☐ PCGP Porphyria Comprehensive Gene Panel

POSTMORTEM BIOCHEMICAL TESTING

- ☐ PMSBB Postmortem Screening, Bile and Blood Spot

PURINE AND PYRIMIDINE METABOLISM

- ☐ PUPYP Purine and Pyrimidine Panel, Plasma
- ☐ PUPYU Purine and Pyrimidine Panel, Random, Urine
- ☐ SSCTU S-Sulfocysteine Panel, Urine

SIALIC ACID DISORDERS

- ☐ SAU Sialic Acid, Free and Total, Random, Urine

Patient Information (required)

Patient ID (Medical Record No.)	Client Account No.
Patient Name (Last, First Middle)	Client Order No.
Birth Date (mm-dd-yyyy)	

UREA CYCLE DISORDERS

☐	AAQP	Amino Acids, Quantitative, Plasma
☐	AAPD	Amino Acids, Quantitative, Random, Urine
☐	AAUCD	Amino Acids, Urea Cycle Disorders Panel, Plasma
☐	OAU	Organic Acids Screen, Random, Urine
☐	OROT	Orotic Acid, Random, Urine
☐	UCDP	Urea Cycle Disorders Gene Panel

WILSON DISEASE

☐	CERS	Ceruloplasmin, Serum
☐	CUU	Copper, 24 Hr, Urine
☐	CUS1	Copper, Serum
☐	WNDZ	Wilson Disease, *ATP7B* Full Gene Sequencing with Deletion/Duplication

WHOLE EXOME

☐	WESMT	Whole Exome and Mitochondrial Genome Sequencing
☐	WESDX	Whole Exome Sequencing for Hereditary Disorders
☐	WESR	Whole Exome Sequencing Reanalysis

WHOLE GENOME

☐	WGSDX	Whole Genome Sequencing for Hereditary Disorders
☐	WGSR	Whole Genome Sequencing Reanalysis

ADDITIONAL TESTS (INDICATE TEST ID AND NAME)

Print

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