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 Provider Information (required)

Submitting/Referring Provider Name *(Last, First)*	
Phone (with area code)	Fax* (with area code)
National Provider Identification (NPI)	

**Fax number given must be from a fax machine that complies with applicable HIPAA regulation.*

Genetic Counselor Information (required)

Genetic Counselor Name *(Last, First)*	
Phone (with area code)	Fax* (with area code)

**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

☐	CYSQN	Cystinuria Profile, Quantitative, 24 Hour, Urine
☐	CYSR	Cystinuria Profile, Quantitative, Random, Urine

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

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

Phenylketonuria

☐	PKU	Phenylalanine and Tyrosine, Plasma
☐	PKUBS	Phenylalanine and Tyrosine, Blood Spot
☐	PKUSC	Phenylalanine and Tyrosine, Self-Collect, Blood Spot

Tyrosinemia

☐	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
☐	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
☐	GCT	Galactosemia Reflex, Blood
☐	GALE	Uridine Diphosphate-Galactose 4' Epimerase, Blood

Transaldolase and Ribose-5-phosphate (RPI) Deficiencies

☐	TALDO	Polyols, Quantitative, Urine

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
☐	STER	Sterols, Plasma

CONGENITAL ADRENAL HYPERPLASIA

☐	CAH2T	Congenital Adrenal Hyperplasia Newborn Screen, Blood Spot
☐	CAH21	Congenital Adrenal Hyperplasia Profile for 21-Hydroxylase Deficiency, Serum

CREATINE DISORDERS

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

FAMILIAL AMYLOIDOSIS

☐	TTRX	Amyloidosis, Transthyretin-Associated Familial, Reflex, Blood

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
☐	FAO	Fatty Acid Oxidation Probe Assay, Fibroblast Culture
☐	FAPCP	Fatty Acid Profile, Comprehensive (C8-C26), Serum
☐	FAPM	Fatty Acid Profile, Mitochondrial (C8-C18), Serum
☐	OAU	Organic Acids Screen, Random, Urine

ORGANIC ACID METABOLISM

☐	C5OHU	C5-OH Acylcarnitine, Quantitative, Random, Urine
☐	OAU	Organic Acids Screen, Random, Urine
☐	OAUS	Organic Acid Screen, Urine Spot

2-Hydroxyglutaric Aciduria

☐	2HGA	2-Hydroxyglutaric Acid Chiral Analysis, Quantitative, Random, Urine

Biotinidase Deficiency

☐	BIOTS	Biotinidase, Serum

Glutaric Acidemia

☐	C5DCU	C5-DC Acylcarnitine, Quantitative, Random, Urine
☐	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
☐	MMAP	Methylmalonic Acid, Quantitative, Plasma
☐	MMAS	Methylmalonic Acid, Quantitative, Serum
☐	MMAU	Methylmalonic Acid, Quantitative, Urine

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FREDREICH ATAXIA

- ☐ FFRBS — Friedreich Ataxia, Frataxin, Quantitative, Blood Spot
- ☐ FFRWB — Friedreich Ataxia, Frataxin, Quantitative, Blood

HYPEROXALURIA

- ☐ HYOX — Hyperoxaluria Panel, Random, Urine

LYSOSOMAL METABOLISM AND STORAGE DISORDERS

Multi-Disorder Panels

- ☐ ARSBB — Arylsulfatase B, Blood Spot
- ☐ ARSBW — Arylsulfatase B, Leukocytes
- ☐ GUSBB — Beta-Glucuronidase, Blood Spot
- ☐ GUSBW — Beta-Glucuronidase, Leukocytes
- ☐ CTSU — Ceramide Trihexosides and Sulfatides, Random, Urine
- ☐ I2SB — Iduronate-2-Sulfatase, Blood Spot
- ☐ I2SWB — Iduronate-2-Sulfatase, Leukocytes
- ☐ HSMWB — Hepatosplenomegaly Panel, Blood
- ☐ HSMP — Hepatosplenomegaly Panel, Plasma
- ☐ PLSD — Lysosomal and Peroxisomal Storage Disorders Screen, Blood Spot
- ☐ LSDS — Lysosomal Storage Disorders Screen, Random, Urine
- ☐ LSD6W — Lysosomal Storage Disorders, Six-Enzyme Panel, Leukocytes
- ☐ MPSBS — Mucopolysaccharidosis, Blood Spot
- ☐ MPSQU — Mucopolysaccharides Quantitative, Random, Urine
- ☐ MPS3B — Mucopolysaccharidosis III, Three-Enzyme Panel, Blood Spot
- ☐ MPS3W — Mucopolysaccharidosis III, Four-Enzyme Panel, Leukocytes
- ☐ MPS4B — Mucopolysaccharidosis IV Enzyme Panel, Blood Spot
- ☐ MPS4W — Mucopolysaccharidosis IV Enzyme Panel, Leukocytes
- ☐ MP8BS — Mucopolysaccharidoses, Eight-Enzyme Panel, Blood Spot
- ☐ MP9W — Mucopolysaccharidoses, Nine-Enzyme Panel, Leukocytes
- ☐ MSDBS — Multiple Sulfatase Deficiency, Blood Spot
- ☐ MSDW — Multiple Sulfatase Deficiency, Leukocytes
- ☐ OLIGU — Oligosaccharide Screen, Random, Urine
- ☐ OXNP — Oxysterols, Plasma

Fabry Disease

- ☐ 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
- ☐ 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
- ☐ 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
- ☐ ARSBW — Arylsulfatase B, Leukocytes
- ☐ ARSBB — Arylsulfatase B, Blood Spot
- ☐ CTSU — Ceramide Trihexosides and Sulfatides, Random, Urine

Mucopolysaccharidoses

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

MPS Type I (Hurler/Scheie)

- ☐ IDUAW — Alpha-L-Iduronidase, Leukocytes
- ☐ MPSER — Mucopolysaccharides Quantitative, Serum

MPS Type II (Hunter)

- ☐ I2SB — Iduronate-2-Sulfatase, Blood Spot
- ☐ I2SWB — Iduronate-2-Sulfatase, Leukocytes

MPS Type III

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

MPS Type IV

- ☐ MPS4B — Mucopolysaccharidosis IV Enzyme Panel, Blood Spot
- ☐ MPS4W — Mucopolysaccharidosis IV Enzyme Panel, Leukocytes

MPS VI

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

MPS VII

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

Multiple Sulfatase Deficiency

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

MPS Type IVB (Morquio B)

- ☐ BGA — Beta-Galactosidase, Leukocytes

Niemann-Pick Types A and B

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

Niemann-Pick Type C

- ☐ NIEM — Niemann-Pick Type C Detection, Fibroblasts
- ☐ OXNP — Oxysterols, Plasma

Neuronal Ceroid Lipofuscinoses

- ☐ NCLBS — Neuronal Ceroid Lipofuscinosis, Two-Enzyme Panel, Blood Spot
- ☐ NCLW — Neuronal Ceroid Lipofuscinosis, Two-Enzyme Panel, Leukocyte

Pompe Disease

- ☐ GAAW — Acid Alpha-Glucosidase, Leukocytes
- ☐ HEX4 — Glucotetrasaccharides, Random, Urine
- ☐ PDBS — Pompe Disease, Blood Spot
- ☐ PDCRF — Pompe Disease Cross-Reactive Immunological Material Status, Fibroblasts
- ☐ PDCRW — Pompe Disease Cross-Reactive Immunological Material Status, Leukocytes

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

Patient Information (required)

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

MITOCHONDRIAL ENERGY METABOLISM

☐ Q10	Coenzyme Q10, Reduced and Total, Plasma
☐ TQ10	Coenzyme Q10, Total, Plasma
☐ FAPM	Fatty Acid Profile, Mitochondrial (C8-C18), Serum
☐ GDF15	Growth Differentiation Factor 15, Plasma
☐ LAPYP	Lactate Pyruvate Panel, Plasma
☐ MMPP	Mitochondrial Metabolites, Plasma
☐ OAU	Organic Acids Screen, Random, Urine
☐ PYRC	Pyruvate, Spinal Fluid
☐ PYR	Pyruvic Acid, Blood

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
☐ KD2T	Krabbe Disease Second-Tier Newborn Screen, 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
☐ PIPA	Pipecolic Acid, Serum
☐ PIPU	Pipecolic Acid, Random, Urine
☐ PGRBC	Plasmalogens, Blood
☐ PGDBS	Plasmalogens, Blood Spot

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

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

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

ADDITIONAL TESTS (INDICATE TEST NUMBER AND NAME)

Print

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