



MNG LABORATORIES
Neurogenetic Answers™

5424 Glenridge Drive NE
Atlanta, GA 30342 USA
toll-free: 678.225.0222
fax: 678.225.0212
mnglabs.com

Neurochemistry & Metabolic Test Request Form

We gladly accept deliveries Monday-Saturday, excluding holidays
CLIA License #11D0703390; CAP License #1441004; State of Georgia License #060-381

Patient Name _____

DOB _____

STAT Testing Now Available

For STAT Testing, please see page 4.

Metabolic

CSF

- | | | |
|--|---|---|
| <input type="checkbox"/> (MET01) Amino Acids | <input type="checkbox"/> (NC04) Neurotransmitter Metabolites (5HIAA, HVA, 3OMD) [Includes Biomarkers for Pyridoxine Responsive Seizures] | <input type="checkbox"/> (NC07) Sialic Acid [Disorders with Hypomyelination of Unknown Etiology/ Sialic Acid Storage Disorders] |
| <input type="checkbox"/> (MET07) Lactate | | |
| <input type="checkbox"/> (MET11) Pyruvate* | | |
| <input type="checkbox"/> (NC01) 5-Methyltetrahydrofolate | <input type="checkbox"/> (NC05) Pyridoxal 5'-phosphate [Pyridox[am]ine Phosphateoxidase Deficiency + CNS Pyridoxal 5'-phosphate Deficiency] | <input type="checkbox"/> (NC08) Alpha-Aminoadipic Semialdehyde [Pyridoxine-Responsive Seizures] |
| <input type="checkbox"/> (NC02) Neopterin [Marker for CNS Immune System Stimulation] | | |
| <input type="checkbox"/> (NC03) Neopterin/Tetrahydrobiopterin | <input type="checkbox"/> (NC06) Succinyladenosine [Adenylosuccinate Lyase Deficiency] | <input type="checkbox"/> (NC09) 4-Hydroxybutyric Acid [Succinic Semialdehyde Dehydrogenase Deficiency] |
| | | <input type="checkbox"/> (NC10) Glucose [Glucose Transporter Deficiency] |

Blood & Muscle

- | | | |
|--|---|---|
| <input type="checkbox"/> (MET02) Amino acids (Plasma) | <input type="checkbox"/> (MET08) Lactate (Plasma) | <input type="checkbox"/> (MET23) Creatine & Guanidinoacetate (Plasma) |
| <input type="checkbox"/> (MET04) Coenzyme Q10 Level (Leukocytes) | <input type="checkbox"/> (MET09) Phenylalanine Loading Assay (Plasma) | <input type="checkbox"/> (MET24) Glucose (Plasma) |
| <input type="checkbox"/> (MET05) Coenzyme Q10 Level (Muscle) | <input type="checkbox"/> (MET10) Pyruvate* (Blood) | <input type="checkbox"/> (MET29) 3-O-Methyldopa (Plasma) [Specific Marker for Aromatic L-Amino Acid Decarboxylase Deficiency] |
| | <input type="checkbox"/> (MET12) Thymidine/Deoxyuridine Analytes (Plasma) | |

Urine

- | | | |
|--|--|---|
| <input type="checkbox"/> (MET03) Amino Acids | <input type="checkbox"/> (MET19) Creatine & Guanidinoacetate | <input type="checkbox"/> (MET20) Alpha Amino adipic Semialdehyde [for Pyridoxine-Responsive Seizures] |
| <input type="checkbox"/> (MET21) Sialic Acid | | |

Enzymology

Blood

- | | |
|---|--|
| <input type="checkbox"/> (ENZ01) Aromatic L-amino Acid Decarboxylase Enzyme Analysis (Plasma) - STAT Not Available | <input type="checkbox"/> (ENZ06) Thymidine Phosphorylase Enzyme Analysis (Blood) - STAT Not Available |
|---|--|

Immunoassays

- | | |
|--|--|
| <input type="checkbox"/> (MET22) Folate Receptor Antibody Assay (Plasma/ Serum) [Cerebral Folate Deficiency] - STAT Not Available | <input type="checkbox"/> (MET25) Folate Receptor Antibody Assay (CSF) [Cerebral Folate Deficiency] - STAT Not Available |
|--|--|

Genetic Testing

IMPORTANT: All NGS Panels include Copy Number Analysis.

Next-Generation Sequencing

- | | | |
|---|---|--|
| <input type="checkbox"/> (NGS310) GABA Metabolism Deficiency; 30 Genes | <input type="checkbox"/> (NGS316) Dopamine Metabolism Deficiency; 16 Genes | <input type="checkbox"/> (NGS318) Tetrahydrofolate Metabolism Deficiency; 12 Genes |
| <input type="checkbox"/> (NGS315) Neurotransmitter Metabolism Deficiency; 101 Genes | <input type="checkbox"/> (NGS317) Serotonin Metabolism Deficiency; 28 Genes | <input type="checkbox"/> (NGS320) Tyrosinemia; 4 Genes |
| | | <input type="checkbox"/> (NGS344) Aicardi-Goutieres Syndromes; 6 Genes |



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Patient Name _____

DOB _____

IMPORTANT: Deletion/Duplication [Del/Dup] Testing for select single genes are in gray boxes. Genes may be offered as Sequencing Only, Del/Dup Only Testing or as Combination Testing (Gene Sequencing + MLPA [Del/Dup]).

Single Gene Sanger Sequencing

- | | | |
|--|--|--|
| <input type="checkbox"/> ADAR (MOL309) | <input type="checkbox"/> GLRA1 (MOL116) | <input type="checkbox"/> SLC2A1 (MOL121) |
| <input type="checkbox"/> ALDH5A1 (MOL125) | <input type="checkbox"/> GLRB (MOL120) | <input type="checkbox"/> SLC2A1 + MLPA [Del/Dup] (MOL231) |
| <input type="checkbox"/> ALDH7A1 (MOL030) | <input type="checkbox"/> GPHN (MOL251) | <input type="checkbox"/> SLC2A1 + MLPA [Del/Dup Only] (MOL186) |
| <input type="checkbox"/> ARHGEF9 (MOL306) | <input type="checkbox"/> MTHFR (MOL171) | <input type="checkbox"/> SLC6A3 (MOL097) |
| <input type="checkbox"/> DBH (MOL141) | <input type="checkbox"/> PAH (MOL349) | <input type="checkbox"/> SLC6A4 (MOL252) |
| <input type="checkbox"/> DDC (MOL025) | <input type="checkbox"/> PC (MOL226) | <input type="checkbox"/> SLC6A5 (MOL127) |
| <input type="checkbox"/> DHFR (MOL237) | <input type="checkbox"/> PDXK (MOL247) | <input type="checkbox"/> SPR (MOL126) |
| <input type="checkbox"/> FOLR1 (MOL166) | <input type="checkbox"/> PNPO (MOL074) | <input type="checkbox"/> TH (MOL091) |
| <input type="checkbox"/> GCH1 (MOL060) | <input type="checkbox"/> PROSC (MOL367) | <input type="checkbox"/> TPH2 (MOL092) |
| <input type="checkbox"/> GCH1 + MLPA [Del/Dup] (MOL234) | <input type="checkbox"/> PTS (MOL096) | <input type="checkbox"/> TREX1 (MOL119) |
| <input type="checkbox"/> GCH1 MLPA [Del/Dup Only] (MOL215) | <input type="checkbox"/> QDPR (MOL117) | |
| <input type="checkbox"/> GLDC (MOL212) | <input type="checkbox"/> RNASEH2A (MOL124) | |
| <input type="checkbox"/> GLDC + MLPA [Del/Dup] (MOL236) | <input type="checkbox"/> RNASEH2B (MOL118) | |
| <input type="checkbox"/> GLDC MLPA [Del/Dup Only] (MOL219) | <input type="checkbox"/> RNASEH2C (MOL168) | |
| | <input type="checkbox"/> SAMHD1 (MOL172) | |
| | <input type="checkbox"/> SLC1A3 (MOL228) | |
| | <input type="checkbox"/> SLC18A2 (MOL095) | |

Gene Sequencing Panels (Sanger)

- | | |
|---|---|
| <input type="checkbox"/> (MOL178) Dopa-Responsive Dystonia Full Gene Sequencing Analysis Panel; 3 Genes | <input type="checkbox"/> (MOL180) Hyperekplexia Full Gene Sequencing Analysis Panel; 5 Genes |
| | <input type="checkbox"/> (MOL297) Hyperekplexia Full Gene Sequencing Analysis Panel; 5 Genes Del/Dup Analysis |
| | <input type="checkbox"/> (MOL285) Hyperekplexia Del/Dup Analysis |

Test request forms are subject to change. Please visit www.mnglabs.com/forms for the most updated test request forms. Visit www.mnglabs.com/support to submit questions by secure HIPAA-Compliant email. Visit www.mnglabs.com/tests for descriptions of each test, as well as molecular differential diagnosis search. Order test kits online at www.mnglabs.com/kits for simplified sample processing, and free inbound and return shipping.



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Neurochemistry & Metabolic Test Request Form

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Patient and Specimen Information

| | | | |
|-------------------|---|------------------------------|---|
| Patient Last Name | | Patient First Name | |
| Patient ID # | | Date of Birth [MM/DD/YYYY] | |
| Diagnosis/ICD-10 | | Collection Date [MM/DD/YYYY] | |
| Gender | <input type="checkbox"/> Male <input type="checkbox"/> Female | Specimen Type | <input type="checkbox"/> Whole Blood <input type="checkbox"/> Fibroblasts <input type="checkbox"/> Urine <input type="checkbox"/> Skin [For Culture] <input type="checkbox"/> Plasma <input type="checkbox"/> CSF <input type="checkbox"/> Buccal Swab <input type="checkbox"/> Muscle <input type="checkbox"/> DNA [DNA Isolation Tissue] |

Referring Physician Information

| | | |
|---|--------------------------------|------------------------------|
| Referring Physician Name | Print | Signature |
| Referring Physician NPI # [Required] | | |
| Facility / Organization | Phone | |
| Select and Provide Email or Fax for Report Delivery | <input type="checkbox"/> Email | <input type="checkbox"/> Fax |

Billing Information [REQUIRED]

| | |
|----------------------------------|-------|
| Facility Responsible for Payment | Phone |
| Facility Contact Person | Fax |
| Facility Contact Person Email | |
| Facility Billing Address | |
| City, State, Zip Code | |

Results (sent by secured HIPPA-compliant email or fax)

| | | |
|--|--------------------------------|--------------------------------|
| | Authorized Results Recipient 1 | Authorized Results Recipient 2 |
| Name | | |
| Facility | | |
| Phone | | |
| Mark Box and Fill In Information for Preferred Results Transmission Method | | |
| Fax | <input type="checkbox"/> | <input type="checkbox"/> |
| Email | <input type="checkbox"/> | <input type="checkbox"/> |

Forms Check List

All of the following are required before we will process your order (please check the following):

- ☐ All specimens that will be analyzed must be received
- ☐ Clinical Information Form completed
- ☐ Informed Consent for Genetic Testing Form completed and signed (also in compliance with New York State Civil Law)
- ☐ (optional) STAT Testing Request Form completed and signed



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Patient Name _____

DOB _____

STAT Testing - Expedite Your Results

IMPORTANT: To request STAT Testing, STAT Testing Form must be **completed, signed and submitted** with test request form. Failure to do so will delay your order.

For a nominal fee, the following tests are available for STAT Testing:

**Neurochemistry (NC) & Metabolic
(MET) Tests**
\$100 per test - 7 day TAT

Molecular (MOL) Tests
\$200 per test - 2 week TAT

**Next-Generation Sequencing
(NGS) Panels**
\$500 per panel - 2 week TAT

NOTE: All MNG tests rely heavily on our proprietary Genome MaNaGer™ variant calling process coupled with our Neurogenetic Answers™ first-in-class reporting platform that delivers the actionable results you expect. MNG Laboratories will ensure any STAT orders meet the stated deadline, or the STAT fee will be waived.

Test Code

IMPORTANT: Enzymology tests NOT offered as STAT

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Test Code: _____

Billing Information For STAT Testing [REQUIRED]

| | |
|----------------------------------|-------|
| Facility Responsible for Payment | Phone |
| Facility Contact Person | Fax |
| Facility Contact Person Email | |
| Facility Billing Address | |
| City, State, Zip Code | |

I HEREBY ACKNOWLEDGE (check all & sign below):

- ☐ I acknowledge that the responsible billing party listed above will pay for the additional costs associated with ordering a STAT Test. I understand that failure to submit payment for STAT Testing will delay my order.
- ☐ I consent that all requested STAT Tests listed above are either Neurochemistry tests, Metabolic tests, Molecular Tests or Next-Generation Sequencing Panels. I understand that all other tests are not available for STAT Testing and will not be ran as a STAT Test if requested.

Signature of Responsible Billing Party (required): _____



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Patient Name _____ **DOB (MM/DD/YYYY)** _____
Gender ☐ Male ☐ Female

Clinical (Check All That Apply)

Neurology

| | | | |
|--|---|---|---|
| Eye | <input type="checkbox"/> Optic Atrophy | <input type="checkbox"/> Retinitis Pigmentosa | <input type="checkbox"/> Other (comment) |
| Hearing | <input type="checkbox"/> Sensorineural | <input type="checkbox"/> Stickler | <input type="checkbox"/> Usher |
| Cognitive/Neurobehavioral | <input type="checkbox"/> Intellectual Disability (ID) | <input type="checkbox"/> Syndromic ID | <input type="checkbox"/> Nonsyndromic ID <input type="checkbox"/> Autism <input type="checkbox"/> Dementia |
| Epilepsy | <input type="checkbox"/> Tonic Clonic | <input type="checkbox"/> Absence | <input type="checkbox"/> Myoclonic <input type="checkbox"/> Epileptic Encephalopathy <input type="checkbox"/> Other (comment) |
| Neuronal Migration | <input type="checkbox"/> Joubert | <input type="checkbox"/> Meckel | <input type="checkbox"/> Other (comment) |
| <input type="checkbox"/> Stroke | | | |
| Movement Disorder | <input type="checkbox"/> Ataxia | <input type="checkbox"/> Episodic Ataxia | <input type="checkbox"/> Dystonia <input type="checkbox"/> Chorea/Athetosis <input type="checkbox"/> Parkinson Disease <input type="checkbox"/> L-Dopa Response |
| Spasticity | <input type="checkbox"/> Spastic Quadriplegia | <input type="checkbox"/> Spastic Paraplegia | <input type="checkbox"/> Other (comment) |
| Neuromuscular | <input type="checkbox"/> Proximal or Distal | <input type="checkbox"/> Muscle Atrophy | <input type="checkbox"/> Rhabdomyolysis <input type="checkbox"/> Statin Use <input type="checkbox"/> Malignant Hyperthermia |
| | <input type="checkbox"/> Contractures | <input type="checkbox"/> Arthrogryposis | <input type="checkbox"/> Myasthenia <input type="checkbox"/> Periodic Paralysis |
| Nerve/Anterior Horn Cell | <input type="checkbox"/> Charcot-Marie-Tooth | <input type="checkbox"/> Nerve Conduction | <input type="checkbox"/> Sensory <input type="checkbox"/> Motor <input type="checkbox"/> Autonomic <input type="checkbox"/> Pain |
| | <input type="checkbox"/> Neurofibromas | <input type="checkbox"/> Other (comment) | |
| Additional Comments | | | |

Cardiology

| | | | |
|---------------------------------|--|---|---|
| Cardiomyopathy | <input type="checkbox"/> Dilated | <input type="checkbox"/> Hypertrophic | <input type="checkbox"/> Noncompaction |
| Arrhythmias | <input type="checkbox"/> Ventricular Tachycardia | <input type="checkbox"/> Long or Short QT | <input type="checkbox"/> Conduction Defect <input type="checkbox"/> Brugada |
| Congenital Heart Defects | <input type="checkbox"/> Heterotaxy | <input type="checkbox"/> Describe | |

Endocrine

☐ Diabetes Mellitus ☐ Hypothyroidism ☐ Other (comment)

Connective Tissue/Bone

☐ Ehlers Danlos ☐ Marfan ☐ Aneurysms ☐ Other (comment)

Additional Comments



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Patient Name _____ **DOB (MM/DD/YYYY)** _____
Gender ☐ Male ☐ Female

Imaging (Check All That Apply)

Brain MRI

☐ Leigh Disease ☐ Basal Ganglia Calcification ☐ Stroke ☐ Cerebellar Atrophy ☐ Abnormal Myelin (describe) _____

EEG (Describe Findings)

EMG/NVC (Describe Findings)

Laboratory

Metabolic (Describe Findings)

CPK

Maximum _____ Minimum _____

Genetic (Describe Findings)

☐ Chromosome Microarray ☐ Deletion/Insertion Testing ☐ Other (comment) _____

Family History

Affected Maternal Lineage

Relationship to Proband _____ Symptoms _____

Affected Paternal Lineage

Relationship to Proband _____ Symptoms _____

Siblings

Number (specify gender) _____ Healthy/Affected _____

Ethnicity (please check)

☐ African ☐ European (Non-Finnish) ☐ Other (comment) _____
☐ East Asian ☐ European (Finnish)
☐ South Asian ☐ Latino



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Informed Consent for Genetic Testing

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Use this Consent Form for all genetic testing except for Exome or Carrier Screening.
For New York clients, please refer to our website for the [New York Consent Form](#).

- Purpose of the Test:** My physician has explained the recommended testing: _____ (name of test or MNG test code), which is performed to help diagnose _____ (insert disease description).
I am aware that all documentation regarding this testing, including the description of the purpose, methodology, and disorders is freely available at www.mnglabs.com/tests and has either been reviewed with me by my physician or I have read the documentation on my own.
- Statement Regarding Test Result:** A positive test result is an indication that the individual has a genetic cause for the specific disease tested for. A negative result may/may not rule out a genetic disorder depending on clinical history and quality/type of specimen tested. The individual may wish to consider further independent testing, consult a personal physician or pursue genetic counseling.
- Level of Certainty:** Is test-specific and determined by the methods employed, patient's clinical history and sometimes by the nature of the patient's condition at time of sampling. There is always a small possibility of error or failure in sample analysis; this is true with complex testing in any laboratory. Inclusion of clinical data, such as medical history, family history, images as they relate to the disease or disorder, will decrease the level of uncertainty in an interpretation and are encouraged to be included when submitting samples for analysis. MNG Laboratories will keep personal information private in accordance with HIPAA laws.
- Disclosing Test Results:** The following categories of persons or organizations that test results may be released to include, but are not limited to: hospitals or laboratories involved in the patient's care, referring physician(s) and primary care providers, other physician groups (consultants, surgeons), insurance companies (as provided by the patient or referring physician for payment purposes), and other professionals involved in patient care that assist MNG Laboratories in carrying out treatment, payment, and operational activities. Results are kept confidential. Medical Neurogenetics complies with security and privacy statutes of the federal Health Information Portability and Accountability Act (HIPAA). If a patient chooses to specifically declare where results may be released (other than the referring institution and ordering physician), please provide these *in writing* to the Compliance Officer, MNG Laboratories (quickresponse@mnglabs.com).
- Testing for Genetic Conditions can be Complex:** If warranted, obtain professional genetic counseling prior to giving consent to fully understand what the risks and benefits are to having the testing completed. I hereby consent to participate in testing described above. I understand that a biologic specimen will be obtained from me and/or members of my family. I understand that this biologic specimen will be used for the purpose of attempting to determine if I, or members of my family, are affected or are carriers of a particular disease or are at increased risk to someday be affected with this genetic disease.

Name of Patient (please print clearly) _____

Date _____

Referring Facility or Healthcare Provider (please print clearly) _____

IMPORTANT

One signature from either the patient/authorized person or physician is required to complete the consent

Signature of Patient or Authorized Person

Physician attests that they have reviewed the requested genetic testing with their patient (*sign below*):

Signature of Physician