



No Sunday or Holiday Deliveries Accepted | CLIA License #11D0703390; State of Georgia License #060-381

VISIT WWW.MNGLABS.COM/SUPPORT TO SUBMIT QUESTIONS BY SECURE HIPAA-COMPLIANT EMAIL FOR RAPID RESPONSE TO QUESTIONS.  
VISIT WWW.MNGLABS.COM/TESTS FOR DESCRIPTIONS OF EACH GENE AND EACH TEST, AS WELL MOLECULAR DIFFERENTIAL DIAGNOSIS SEARCH.  
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PATIENT NAME: \_\_\_\_\_ DOB: \_\_\_\_\_

**METABOLIC**

**CSF**

- (MET01) CSF AMINO ACIDS
- (MET07) CSF LACTATE
- (MET11) CSF PYRUVATE
- (NC01) CSF 5-METHYLTETRAHYDROFOLATE
- (NC02) CSF NEOPTERIN [MARKER FOR CNS IMMUNE SYSTEM STIMULATION]
- (NC03) CSF TETRAHYDROBIPTERIN AND NEOPTERIN PROFILE
- (NC04) CSF NEUROTRANSMITTER METABOLITES 5HIAA, HVA, 3OMD [INCLUDES BIOMARKERS FOR PYRIDOXINE RESPONSIVE SEIZURES]
- (NC05) CSF PYRIDOXAL 5'-PHOSPHATE [PYRIDOX[AM]INE PHOSPHATE OXIDASE DEFICIENCY + CNS PYRIDOXAL 5'-PHOSPHATE DEFICIENCY]
- (NC06) CSF SUCCINYLDENOSINE [ADENYLOSUCCINATE LYASE DEFICIENCY]
- (NC07) CSF SIALIC ACID [DISORDERS WITH HYPOMYELINATION OF UNKNOWN ETIOLOGY /SIALIC ACID STORAGE DISORDERS]
- (NC08) CSF ALPHA-AMINOADIPIC SEMIALDEHYDE [PYRIDOXINE-RESPONSIVE SEIZURES]
- (NC09) CSF 4-HYDROXYBUTYRIC ACID [SUCCINIC SEMIALDEHYDE DEHYDROGENASE DEFICIENCY]
- (NC10) CSF GLUCOSE (GLUCOSE TRANSPORTER DEFICIENCY)

**BLOOD AND MUSCLE**

- (MET02) AMINO ACIDS [PLASMA]
- (MET04) COENZYME Q10 LEVEL [LEUKOCYTES]
- (MET05) COENZYME Q10 LEVEL [MUSCLE]
- (MET08) LACTATE [PLASMA]
- (MET09) PHENYLALANINE LOADING ASSAY [PLASMA]
- (MET10) PYRUVATE\* [BLOOD]
- (MET12) THYMIDINE AND DEOXYURIDINE [PLASMA]
- (MET23) CREATINE & GUANIDINOACETATE [PLASMA]
- (MET24) GLUCOSE [PLASMA]

**URINE**

- (MET03) AMINO ACIDS [URINE]
- (MET14) ORGANIC ACIDS [URINE]
- (MET19) CREATINE & GUANIDINOACETATE [URINE]
- (MET20) ALPHA-AMINOADIPIC SEMIALDEHYDE [URINE; FOR PYRIDOXINE-RESPONSIVE SEIZURES]

**ENZYMOLGY**

**BLOOD**

- (ENZ01) AROMATIC L-AMINO ACID DECARBOXYLASE [AADC] ENZYMOLOGY [PLASMA]
- (ENZ06) THYMIDINE PHOSPHORYLASE ENZYMOLOGY [WHOLE BLOOD ACD]

**IMMUNOASSAYS**

- (MET22) FOLATE RECEPTOR ANTIBODY ASSAY [PLASMA, SERUM; CEREBRAL FOLATE DEFICIENCY]
- (MET25) FOLATE RECEPTOR ANTIBODY ASSAY [CSF; CEREBRAL FOLATE DEFICIENCY]

**GENETIC TESTING**

DELETION/DUPLICATION [DEL/DUP] TESTING FOR SELECTED GENES IS IN GREY BOXES. GENES ARE OFFERED AS ONLY DEL/DUP TESTING OR AS COMBINATION TESTING (GENE SEQUENCING + MLPA [DEL/DUP]).

**NEXT-GENERATION SEQUENCING**

- (NGS344) AICARDI- GOUTIERES SYNDROMES; 6 GENES
- (NGS315) NEUROTRANSMITTER METABOLISM; 93 GENES
- (NGS316) DOPAMINE METABOLISM; 14 GENES
- (NGS310) GABA METABOLISM; 22 GENES
- (NGS317) SEROTONIN METABOLISM; 27 GENES
- (NGS318) TETRAHYDROFOLATE METABOLISM; 15 GENES
- (NGS320) TYROSINEMIA; 4 GENES

**SINGLE GENE SANGER SEQUENCING**

- (MOL309) ADAR
- (MOL030) ALDH7A1
- (MOL141) DBH
- (MOL237) DHFR
- (MOL125) ALDH5A1
- (MOL306) ARHGEF9
- (MOL025) DDC
- (MOL166) FOLR1

- +  (MOL060) GCH1
- (MOL234) GCH1+MLPA [DEL/DUP]
- (MOL215) GCH1 MLPA [DEL/DUP ONLY]
- +  (MOL212) GLDC
- (MOL236) GLDC+MLPA [DEL/DUP]
- (MOL219) GLDC MLPA [DEL/DUP ONLY]

- (MOL116) GLRA1
- (MOL251) GPHN
- (MOL226) PC
- (MOL074) PNPO
- (MOL117) QDPR
- (MOL118) RNASEH2B
- (MOL172) SAMHD1
- (MOL095) SLC18A2
- (MOL097) SLC6A3
- (MOL127) SLC6A5
- (MOL091) TH
- (MOL092) TPH2
- (MOL119) TREX1
- (MOL120) GLRB
- (MOL171) MTHFR
- (MOL349) PAH
- (MOL247) PDXK
- (MOL096) PTS
- (MOL124) RNASEH2A
- (MOL168) RNASEH2C
- (MOL095) SLC18A2
- (MOL228) SLC1A3
- (MOL252) SLC6A4
- (MOL126) SPR

**GENE SEQUENCING PANELS [SANGER]**

- +  (MOL181) AICARDI-GOUTIERES (6 GENES- ADAR, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, TREX1)
- (MOL279) AICARDI-GOUTIERES (6 GENES) + MLPA [DEL/DUP]
- (MOL284) AICARDI-GOUTIERES PANEL MLPA [DEL/DUP ONLY]

- (MOL178) DOPA-RESPONSIVE DYSTONIA (3 GENES- GCH1, SPR, TH)

- +  (MOL180) HYPEREKPLEXIA (5 GENES- ARHGEF9, GLRA1, GLRB, GPHN, SLC6A5)
- (MOL297) HYPEREKPLEXIA (5 GENES) +MLPA [DEL/DUP INCLUDED]
- (MOL285) HYPEREKPLEXIA PANEL MLPA: [DEL/DUP ONLY FOR GLRA1, GLRB, SLC6A5]



**MNG LABORATORIES**

5424 Glenridge Drive NE  
Atlanta, GA 30342 USA  
toll-free: 844.TESTMNG  
fax: 678.225.0212  
mnglabs.com

**NEUROCHEMISTRY AND  
METABOLIC TEST REQUEST  
FORM**

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<b>PATIENT NAME:</b>	<b>DOB:</b>
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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	SIGNATURE
<b>REFERRING PHYSICIAN NPI # (REQUIRED)</b>	
FACILITY/ORGANIZATION	PHONE
SELECT AND PROVIDE EMAIL OR FAX FOR REPORT DELIVERY	<input type="checkbox"/> EMAIL <input type="checkbox"/> FAX

**BILLING INFORMATION**

FACILITY RESPONSIBLE FOR PAYMENT	PHONE
FACILITY CONTACT PERSON	EMAIL
FACILITY BILLING ADDRESS 1	FAX
FACILITY BILLING ADDRESS 2	
CITY, STATE, ZIP CODE	

**RESULTS (SENT BY SECURE HIPAA-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"/>

**CLINICAL INFORMATION: PLEASE INCLUDE/ ATTACH CLINICAL INFORMATION  
CLINICAL INFORMATION FORM AVAILABLE AT [MNGLABS.COM/FORMS](http://MNGLABS.COM/FORMS)**



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Patient Name (Last, First): \_\_\_\_\_ Date of Birth (MM/DD/YYYY): \_\_\_\_\_

Gender:  Male  Female

CLINICAL (CIRCLE ALL THAT APPLY)	
NEUROLOGY	COMMENTS
<b>EYE</b> OPTIC ATROPHY RETINITIS PIGMENTOSA OTHER	
<b>HEARING</b> SENSORINEURAL STICKLER USHER	
<b>COGNITIVE/NEUROBEHAVIORAL</b> INTELLECTUAL DISABILITY (ID) SYNDROMIC ID NONSYNDROMIC ID AUTISM DEMENTIA	
<b>EPILEPSY</b> TONIC CLONIC ABSENCE MYOCLONIC EPILEPTIC ENCEPHALOPATHY OTHER	
<b>NEURONAL MIGRATION</b> JOUBERT MECKEL OTHER	
<b>STROKE</b>	
<b>MOVEMENT DISORDER</b> ATAXIA EPISODIC ATAXIA DYSTONIA CHOREA/ATHETOSIS PARKINSON DISEASE L-DOPA RESPONSE	
<b>SPASTICITY</b> SPASTIC QUADRIPLEGIA SPASTIC PARAPLEGIA OTHER	
<b>NEUROMUSCULAR</b> PROXIMAL OR DISTAL MUSCLE ATROPHY RHABDOMYOLYSIS STATIN USE MALIGNANT HYPERTHERMIA CONTRACTURES ARTHROGRYPOSIS MYASTHENIA PERIODIC PARALYSIS	

<b>NERVE/ANTERIOR HORN CELL</b> CHARCOT-MARIE-TOOTH NERVE CONDUCTION SENSORY MOTOR AUTONOMIC PAIN NEUROFIBROMAS OTHER	
CARDIOLOGY	COMMENTS
<b>CARDIOMYOPATHY</b> DILATED HYPERTROPHIC NONCOMPACTION	
<b>ARRHYTHMIAS</b> VENTRICULAR TACHYCARDIA LONG OR SHORT QT CONDUCTION DEFECT BRUGADA	
<b>CONGENITAL HEART DEFECTS</b> DESCRIBE HETEROTAXY	
ENDOCRINE	COMMENTS
DIABETES MELLITUS HYPOTHYROIDISM OTHER	
CONNECTIVE TISSUE/BONE	COMMENTS
EHLERS DANLOS MARFAN ANEURYSMS OSTEOGENESIS IMPERFECTA OTHER	
ADDITIONAL COMMENTS	



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Gender:  Male  Female

IMAGING (CIRCLE ALL THAT APPLY)
<b>BRAIN MRI</b>
LEIGH DISEASE
BASAL GANGLIA CALCIFICATION
STROKE
CEREBELLAR ATROPHY
ABNORMAL MYELIN (DESCRIBE)
<b>EEG (DESCRIBE FINDINGS)</b>
<b>EMG/NCV (DESCRIBE FINDINGS)</b>
LABORATORY
<b>METABOLIC (DESCRIBE FINDINGS)</b>
<b>CPK</b>
MAXIMUM
MINIMUM
<b>GENETIC (DESCRIBE FINDINGS)</b>
CHROMOSOME MICROARRAY
DELETION/INSERTION TESTING
OTHER

FAMILY HISTORY
<b>AFFECTED MATERNAL LINEAGE</b>
RELATIONSHIP TO PROBAND
SYMPTOMS
<b>AFFECTED PATERNAL LINEAGE</b>
RELATIONSHIP TO PROBAND
SYMPTOMS
<b>SIBLINGS</b>
NUMBER (SPECIFY GENDER)
HEALTHY/AFFECTED
<b>ETHNICITY (PLEASE CIRCLE)</b>
AFRICAN
EAST ASIAN
SOUTH ASIAN
EUROPEAN (NON- FINNISH)
EUROPEAN (FINNISH)
LATINO
OTHER: _____