

**MITOCHONDRIAL
LABORATORY**

555 University Avenue
Room 3642, Atrium
Toronto, ON, M5G 1X8, Canada

Tel: 416-813-7200
Fax: 416-813-5431

Patient Last Name: _____

First Name: _____

Date of Birth (DD/MM/YYYY): _____

Gender: Male Female Unknown

For Canada Only

Health Card #: _____

Version: _____

Issuing Province: _____

MITOCHONDRIAL TESTING

Referred-in Requisition

Specimen Collection Information

Date (DD/MM/YYYY)	Time (HH:MM)	Collected by:
_____	_____	_____

Sample #: _____	If fibroblasts, # of passages: _____	Date of Referral (DD/MM/YYYY) _____
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Referring Physician / Institution		
Name	Address	Telephone
_____	_____	_____

Note: DO NOT submit specimens from patients with HIV+ve status. HIV+ve status interferes with testing.

SKIN FIBROBLAST, AMNIO/CVS TESTING

<input type="checkbox"/> Pyruvate Determination for L/P ratio	<input type="checkbox"/> Pyruvate Dehydrogenase - Total	<p>For in-patient: Skin biopsy collection medium can be obtained from Tissue Culture Laboratory (ext 202394) or Pathology (ext 205944). The sample MUST be sent to Tissue Culture Laboratory (Rm # 3225).</p> <p>For testing on amniocytes: Provide at least 3 confluent 25 mL flasks of amniocytes with the same number of flasks of at least two different controls. Keep a backup flask growing. For controls use amniocytes/CVS from individuals approximately the same gestation and age, "discards" from testings for LATE MATERNAL AGE.</p> <p>For testing on outpatients: Provide 2 x 25 mL flasks of cell culture. Cells will be cultured by Tissue Culture Laboratory for the duration of the tests.</p> <p>Note: All fibroblast and amnio specimens must be shipped at room temperature. For shipment of skin biopsies call Tissue Culture Laboratory at 416-813-7654 ext 202394.</p> <p>Test requires 20 plates (10 cm) for mitochondrial isolation with the same number of plates from a control cell line, and thus will delay testing and results.</p>
<input type="checkbox"/> Lactate Determination for L/P ratio	<input type="checkbox"/> Pyruvate Decarboxylase - E1	
<input type="checkbox"/> Cytochrome Oxidase (Comp. IV)	<input type="checkbox"/> Pyruvate Dehydrogenase - E2	
<input type="checkbox"/> Succinate Cytochrome C Reductase (Comp. II+III)	<input type="checkbox"/> Pyruvate Dehydrogenase - E3	
	<input type="checkbox"/> Pyruvate Carboxylase (PC)	
	<input type="checkbox"/> Phosphoenolpyruvate carboxykinase (PEPCK)	
<input type="checkbox"/> Partial Screen: All of the above tests with the exception of PC, PEPCK <input type="checkbox"/> Total screen: All of the above tests		
<input type="checkbox"/> Skin fibroblast mitochondrial isolation (NADH: cytochrome c reductase (CI+III), CII+III, CIV, ATPase (CV), citrate synthase (CS))		

BIOPSY TESTING ON FROZEN TISSUE (Total tissue homogenate: muscle, liver, heart, kidney)

<input type="checkbox"/> Comp I+III, II+III, IV and CS	Provide about 50 mg of tissue in a plastic cryovial snap frozen in liquid nitrogen. Note: Specimen should NOT be immersed in isopentane or any other fluid before freezing. All frozen specimens must be shipped in a cryovial on plenty of dry ice . Ship early in the week by overnight courier. Specimens received thawed CANNOT be tested.
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BIOPSY TESTING ON ENDOCARDIAL BIOPSY

<input type="checkbox"/> Comp I+III, II+III, IV and CS	Make arrangement with the lab at least 24 hrs prior to the procedure . Provide 2-5 mg fresh specimen . Specimen should be transported in a small container ON ICE .
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BIOPSY TESTING ON ISOLATED MUSCLE MITOCHONDRIA, FRESH TISSUE

<input type="checkbox"/> NADH: ubiquinone reductase (CI), CI+III, Succinate DCIP reductase (CII), CII+III, CIV, CV, CS	Make arrangement with the lab at least 24 hrs prior to the biopsy. Provide 250-300 mg of fresh muscle for mitochondrial isolation. Specimen that weighs less than 200 mg will be snap frozen and processed as "frozen tissue" All fresh biopsies should be transported in a plastic container ON ICE .
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Please continue and complete the 'Clinical Information Sheet' on page 2.

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Referring Physician / Institution

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_____	_____	_____

Please complete and submit this form in conjunction with the "Mitochondrial Testing Requisition".

Clinical information (Please check):

Age at onset: _____

CNS	Ophthalmologic	Muscle	Cardiac	General
<input type="checkbox"/> Microcephaly <input type="checkbox"/> Developmental Delay <input type="checkbox"/> Stroke-like episodes <input type="checkbox"/> Ataxia <input type="checkbox"/> Myoclonus <input type="checkbox"/> Dystonia <input type="checkbox"/> Sensorineural hearing loss <input type="checkbox"/> Seizures <input type="checkbox"/> Encephalopathy <input type="checkbox"/> Ophthalmoplegia <input type="checkbox"/> Leigh's Disease <input type="checkbox"/> Basal Ganglia Calcification	<input type="checkbox"/> Optic atrophy <input type="checkbox"/> Leber's HON <input type="checkbox"/> Pigmentary retinopathy <input type="checkbox"/> Cortical Blindness <input type="checkbox"/> Nystagmus Nerve <input type="checkbox"/> Neuropathy <input type="checkbox"/> Axonal <input type="checkbox"/> Demyelinating Hepatic <input type="checkbox"/> Hepatic dysfunction <input type="checkbox"/> Hepatomegaly Renal <input type="checkbox"/> Renal tubular acidosis	<input type="checkbox"/> Myopathy <input type="checkbox"/> Hypotonia <input type="checkbox"/> Exercise intolerance <input type="checkbox"/> Ptosis	<input type="checkbox"/> Conduction abnormalities <input type="checkbox"/> Cardiomyopathy <input type="checkbox"/> Hypertrophic <input type="checkbox"/> Dilatative <input type="checkbox"/> Other	<input type="checkbox"/> Failure to thrive <input type="checkbox"/> Feeding problems <input type="checkbox"/> Lethargy <input type="checkbox"/> Dysmorphic facies
		Relevant family history		

LABORATORY DATA (IF KNOWN):

<input type="checkbox"/> Serum lactate: _____	<input type="checkbox"/> CSF Lactate: _____	<input type="checkbox"/> EMG: _____	<input type="checkbox"/> ABR: _____
<input type="checkbox"/> ALT: _____	<input type="checkbox"/> AST: _____	<input type="checkbox"/> NCS: _____	<input type="checkbox"/> VEP: _____
<input type="checkbox"/> Alkaline phosphatase: _____	<input type="checkbox"/> BUN: _____	<input type="checkbox"/> CT: _____	<input type="checkbox"/> SSEP: _____
<input type="checkbox"/> Creatinine: _____	<input type="checkbox"/> Other: _____	<input type="checkbox"/> MRI: _____	

Past muscle or skin biopsy Yes No

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BILLING FORM

How to complete the Billing Form: (Completion of Billing Form NOT required for patients with an Ontario Health Card Number.)

- Referring Physician completes the appropriate section below to specify billing method.
- Send requisition and completed "Billing Form" with specimen.
- Invoices are sent upon completion of each test/service.

Option 1: Complete to have the Healthcare Provider billed:

Your Referring Laboratory's Reference #: _____

Billing address of hospital, referring laboratory:

Name: _____

Address: _____

City: _____ Prov/State: _____

Postal/Zip Code: _____ Country: _____

Contact Name: _____

Contact Telephone #: _____

Option 2: Interim Federal Health Program (IFHP)

Submit a copy of the Interim Federal Health Certificate (Refugee Protection Claimant Document) with the photo and UCI# visible for coverage to be confirmed.

UCI# _____

ICD code (lab use only): _____

Option 3: Complete to have Patient/Guardian billed directly:

If you elect to have patient/guardian billed:

- Patient/Guardian billing information below must be complete; otherwise, the healthcare provider will be billed.
- Please advise the patient/guardian to expect a bill from our laboratory.
- Provide us with patient's valid credit card information.
- Unfortunately, we cannot accept personal checks.
- **In this case, the patient/guardian is solely responsible for the charges.**

Relation to patient (check one): Patient Guardian/Parent

Method of Payment (check one): American Express MasterCard Visa

Name as it appears on credit card: _____

Credit card #: _____

Expiry date on credit card: _____

CVS#- found on back of card (Required): _____

Mailing Address of Patient/Guardian (if different from requisition):

Name: _____

Address: _____

_____ Apt. #: _____

City: _____ Prov/State: _____

Postal/Zip Code: _____ Country: _____

Additional Contact Information

Patient's phone # with area code: _____

- or -

Guardian's phone # with area code: _____
