REQUISITION – Mitochondrial Genome Panel



Juravinski Hospital

Clinical Genetics Laboratory - Room H2-19A 711 Concession Street, Hamilton, ON L8V IC3 Phone: (905) 521-2100 x76944 | Fax: (905) 521-7913

Email: moleculargenetics@hhsc.ca

Patient Information

*Name (print):

Surname, First Name

*DOB (DD/MM/YYYY):

*Sex: □M □F □Other

*Health Card No.:

*Mandatory Information. Specimen cannot be processed without this data.

Note: Specimen collection is NOT completed at this lab. Please proceed to any community lab for blood draw.

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Reports To:	Additional Copies To:	
*Ordering Physician:	*Name:	Please see the HRLMP Laboratory
*Address:		Test Information Guide (LTIG) for
*Phone: *Fax:		complete sample requirements and test information:
*Email:		
*Authorized Signature:		https://ltig.hrlmp.ca/
SPECIMEN INFORMATION: *PLEASE VISIT THE	LTIG WEBSITE FOR SAMPLE SHIPPING REQU	JIREMENTS*
Collection Date (DD/MM/YYYY):	Time of collection:	
 □ Peripheral blood in EDTA (2x5ml >2 yrs/ag □ Fibroblast (tissue culture dish 100 x 200mm □ Urine (4ml of random urine, first catch, no TEST REQUESTED: □ Entire mtDNA sequenced CLINICAL INFORMATION: Please check all that 	n) preservatives) DNA (minimum Other (contact L d by Next Generation Sequencing (NGS) Pleas	e select from criteria below.
Suspected Disease:	Clinical Features:	Biochemical Features (attach report):
[] Leigh disease [] Primary lactic acidosis (in the absence of tissue hypoxia or multi-organ failure) [] Chronic progressive external opthalmoplegia [] Mitochondrial neuro-gastro-intestinal ophthalomyopathy (MNGIE) [] Multiple symmetric lipomatosis (must include head and/or neck) [] Pearson syndrome [] Kearns-Sayres syndrome [] Mitochondrial encephalomyopathy, lactic acidosis, and stroke-like episodes (MELAS) [] Myoclonic epilepsy with ragged-red fibers (MERFRF) [] Neuropathy, ataxia, and retinis pigmentosa (NARF) [] Leber's hereditary optic neuropathy (LHON) [] Gentamicin-related sensorineural hearing loss Pathological Features (attach report): [] >2% ragged red fibers, aged 30-50 years [] Any ragged red fibers, aged <30 years [] 2% subsarcolemma mitchondrial accumumlation, aged <16 years [] >2% COX-negative fibers, aged <50 years [] Other suggestive pathology finding	A) Sign of highly oxidative tissue/organ: * without other known etiology [] CNS [] Pigmentary retinopathy and/or optic atrophy [] Peripheral neuropathy [] Sensorineural hearing loss [] Rhabdomyolysis [] Fixed weakness of skeletal muscle [] Cardiomyopathy and/or arrhythmias and/or conduction block [] Proximal renal tubulopathy (Fanconi syndrome) [] Type 2 diabetes mellitus [] Sideronblastic anemia [] GI tract: pseudoobstruction, hepatopathy [] Unexplained failure to thrive or short-stature B) AND one of the following: [] Clinical progression with stepwise exacerbation of symptoms [] Positive family history for any of A) [] Lactic acidosis (non-acute illness) [] Elevated alanine (plasma amino acids) [] Elevated 3-methylglutaconic acid (urine organic acids)	[] <30% activity of any RC complex in tissue or cell line (% of normal control mean relative to citrate synthase) [] Persistent (>2 samples on separate days), unexplained hyperlactatemia (>3.0mmol/L in free-flowing sample drawn without tourniquet) [] Increased lactate:pyruvate ratio (>25) in skin fibroblasts [] Persistent (>2 samples) hyperalaninemia >500uM [] Persistent (>2 samples) abnormal excretion of lactate, pyruvate, and/or TCA cycle intermediates in urine [] Evidence of mtDNA depletion or multiple mtDNA deletions [] Patient fibroblasts unable to grow with galactose as sole carbon source [] Other suggestive biochemical finding Other Relevant Clinical Information:

Continued on page 2.

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KNOWN FAMILIAL VARIANT: Please provide a pedigree and a proband report if not tested at HRLMP.	
Proband Name:	
Proband DOB (DD/MM/YY):	
Proband Relationship to Patient:	
Familial Variant Name or HRLMP Report #:	
FAMILY PEDIGREE: Please clearly annotate all known symptoms and mutations.	