Department of Clinical Laboratory Genetics

Genome Diagnostics & Cancer Cytogenetics

Malignant Hematology Testing

Toronto General Hospital

Eaton Wing 11-444, 200 Elizabeth Street

Toronto, Ontario M5G 2C4 Phone: (416) 340-4800 x5739

Fax: (416) 340-3596 Cancer Cytogenetics Fax: (416) 340-4473 Genome Diagnostics

Email: Genome.diagnostics@uhn.ca

Hours of Operation (Mon-Fri) 8:30AM-4:30PM

CAP: 7175217 CLIA: 99D1106115 ACD: 4204-site 0141



Patient Information or Hospital Stamp Here Last Name:
First Name:
Date of Birth (DD/MMM/YYYY):
Sex assigned at birth:
Health Card #:
Hospital #:

Instructions:

THIS REQ IS FOR MALIGNANT HEMATOLOGY TESTING Information For Reporting:

ONLY – SOLID TUMOUR and HEREDITARY requisitions Full Name of Referring Physician:

can be found at:

https://www.uhn.ca/Labs/services_clinicians#Requisit Hospital/Address:

- 1. Complete all information as requested
- Send requisition with specimen to address above
- DO NOT COME TO TORONTO GENERAL FOR **BLOOD DRAW**
- 3. Keep specimen at room temperature unless frozen
- 4.If shipping, send same day or next day delivery
- 5. Specimen labelling: Name, DOB, MRN#, Date

Taken

CPSO #:

Phone: Fax:

Physician Signature:__

Copy Report To (include full name and Fax #):

Specimen Requirements – Genome Diagnostics:

Peripheral blood

For leukemia/lymphoma - 20 mL in EDTA For all other testing - 5ml in EDTA

☐ Bone marrow aspirate

1-2 ml in EDTA

☐ Extracted DNA or RNA (>4μg) (please ci	ircle nucleic acid)
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Tissue Source ____

Concentration: ______ Volume:___

Extracted nucleic acid will only be accepted from an appropriately accredited laboratory (ex. ACD or equivalent).

Specimen Requirements – Cytogenetics (Page 3):

☐ Bone marrow aspirate >1.5 ml in **sodium heparin**

☐Peripheral blood 5-10 ml in sodium heparin

□ Paraffin Embedded Tissue (FISH)

- -include circled H&E (12mm)
- -2 x 4μm sections/probe on positively charged slides, air dried

□Cytology preparation (FISH)

- -Air-dried smear/touch prep (1-2 per test)
- -Cytospin slide (1-2 per test)

N.B. Decalcified specimens are not accepted for testing.

Please ensure that you are using an updated copy of this requisition available at:



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Funded for AML, MPN, MDS, and MDS/MPN.

DNMT3A IKZF1

IDH1

IDH2

IRF1

JAK1

JAK2

JAK3

KMT2A

KRAS

MPL

KIT

CUX1

ETNK1

ETV6

EZH2

FLT3

FBXW7

GATA2

GNAS

ANKRD26 DDX41

CTNNA1 GNB1

ABL1

ASXL1

BCOR

BRAF

CALR

CEBPA

CSF3R

CBL

BCORL1

☐ Comprehensive Sequencing (NGS), includes:

MYD88

NF1

NFE2

NPM1

NRAS

PAX5

PHF6

PPM1D

PRPF8

PTPN11

RAD21

RUNX1

SETBP1

SH2B3

SRSF2

STAG2

STAT3

STAT5a

STAT5b

TERC

NOTCH1 SF3B1

TERT

TET2

TP53

TYK2

U2AF1

UBA1

WT1

ZRSR2

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□^KIT (Mastocytosis - BM or involved tissue

□^JAK2 (Exon 12 + Exon 14 p.V617F) / CALR

□ ^Specimen matching (Please provide control

specimen, specimen in question and details)

Identity Testing (15 STRs and

amelogenin XY loci):

preferred)

(MPD)

Reterral: ☐ Diagnosis:	☐ Diagnostic sample: (First sample at Diagnosis)☐ Monitoring: (for follow-up samples) Treatment (specify type) Date of last treatment	
Genome Diagnostics Tests - Hematological		
Leukemia: □ ^BCR::ABL1 t(9;22) Please indicate if known - □ CML or □ ALL □ ^ABL1 kinase domain mutation □ RUNX1::RUNX1T1 (AML/ETO) t(8;21) □ CBFB::MYH11 Inv(16) or t(16;16) □ PML::RARA t(15;17) □ FLT3/NPM1 (newly diagnosed AML)	Lymphoma: please attach corresponding pathology report ^B-cell Clonality ^T-cell Clonality ^MYD88 ^Mantle cell (BTK,PLCG2,TP53) Stem cell transplant monitoring:	
 □ FLT3 only (relapsed/refractory AML) □ NPM1 MRD (4bp insertion between nucleotide 863 and 864 only) □ CLL – IGHV Somatic Hypermutation/BTK,PLCG2,TP53 (for patients requiring treatment only) □ CLL – BTK,PLCG2,TP53 (for patients that have progressed on or after first line therapy) Malignant Hematology NGS panel: 	□ ^15 STRs and amelogenin XY loci Please specify: □ Donor □ Recipient Pre-SCT □ Recipient Post-SCT (Split Chimerism – Blood only) □ Recipient Post-SCT (Unfractionated) Other: □ ^BRAF (p.V600E/K only) (please select: Hairy cell leukemia, Langerhans cell histiocytosis, Erdheim-	

Andicates a test that will be billed to the referring hospital, laboratory, physician or medical group.

Page 2/3 Version 8.6 May 2025



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Cancer Cytogenetics – Malignant Hematology

Clinical Diagnosis/Reason for Referral:	A bone marrow report must accompany or be sent by	
☐ Diagnosis:	fax/email for all bone marrow samples. All samples will be banked and testing delayed until this	
☐ Monitoring:	information is received.	
G-Banded Karyotyping Bone Marrow or Peripheral Blood for Oncology (marro G-banded karyotype analysis.	ow: ≥1.5mL NaHep, blood: 5-10mL NaHep).	
Fluorescence in situ Hybridization (FISH)		
Chronic Myelogenous Leukemia (B/M) ABCR::ABL1 (only for molecular negative) FISH for Plasma Cell Neoplasms Plasma Cell Neoplasms with CD138 Cell Enrichment (Magnetic separation requires ≥ 1mL marrow aspirate. If other tests are requested, e.g. karyotype, please submit an additional 1.5-2mL of aspirate in a separate tube.) (M) AMUltiple Myeloma Panel (or Amyloidosis) FISH for Myeloid Disorders Eosinophilia FISH Panel (B/M) APDGFRA / PDGFRB / FGFR1 FISH for Lymphoid Disorders Chronic Lymphocytic Leukemia (B/M) CLL FISH Panel (WBC > 5x10 ⁹ cells/mL) diagnostic follow up	FISH for Lymphoid Disorders (continued) Large B-Cell Lymphoma Panel (B/M/C/P) AReflex Panel (BCL2 and BCL6 only when MYC Positive) Burkitt Lymphoma (B/M/C/P) MYC ONLY Follicular lymphoma / DLBCL (B/M/C/P) AIGH/BCL2 t(14;18)(q32;q21) BCL6 Anaplastic large cell lymphoma (B/M/P) ALK MALT lymphoma (B/M/C/P) MALT1 Mantle cell lymphoma (B/M/C/P) CCND1/IGH t(11;14)(q13;q32)	

Indicates FISH validation status by sample type: **B** = Blood, **M** = Marrow, **P** = Paraffin (surgical or cytology slides), **C** = Cytospin