

Probe names listed in blue will only be performed when requested based on diagnosis/results of pathologic morphology and other cytogenetic/molecular studies.

CLL (Chronic Lymphocytic Leukemia)

- del(13)(D13S319)/-13
- 12 centromere
- ATM (11q22.3) and 11 centromere
- t(11;14) – reflex 14q32 IGH, t(14;18) and t(8;14)
- 17p (TP53) and 17 centromere

MM (Multiple Myeloma)

- del(13)(RB1)/-13
- t(11;14) - reflex if IGH split (see below)
- 17p (TP53) and 17 centromere
- 1p loss/1q gain
- MYC break apart probe

MM Reflex Panel

- 14q32 break apart probe
- t(4;14) FGFR3::IGH
- t(14;16) IGH::MAF
- t(6;14) CCND3::IGH
- t(14;20) IGH::MAFB

Lymphoma - B cell NHL

- MYC break apart probe – reflex t(8;14)
- BCL6 (3q27)
- t(14;18) IGH::BCL2 – reflex 14q32 IGH, t(11;14) and t(8;14)

Lymphoma – MALT or Marginal Zone (MZL)

- t(11;18) BIRC3::MALT1
- 18q MALT1 break apart
- BCL6 (3q27) (+3)
- t(14;18) IGH::BCL2

Lymphoma – Splenic Marginal Zone (SMZL)

- 7q deletion
- BCL6 (3q27) (+3q)

AML Confirmation (singly if detected by CA)

- t(15;17) PML::RARA
- inv(16) CBFB
- t(8;21) RUNX1T1::RUNX1
- 11q23 KMT2A
- 17p13 TP53
- **3q26 EVI1 if detected by CA**

AML Cryptic Panel if CA negative/suspicious

- 11q23 KMT2A
- 17p13 TP53

Monitoring: This procedure will be reviewed at least once every 24 months or more frequently, if applicable, and signed off by the CLIA director.

ALL (Acute Lymphoblastic Leukemia)

- t(9;22) BCR::ABL1
- 11q23 KMT2A
- t(12;21) ETV6::RUNX1
- 4 centromere, 10 centromere, 17 centromere
- **Xp/Yp CRLF2 break apart probe**
- **9p JAK2 break apart probe**

CMM (rule out CMM panel)

Chronic Monomyelocytic Leukemia

- 4q12 FIP1L1::CHIC2::PDGFRA
- 5q33 PDGFRB
- 8p12 FGFR1, 8cen D8Z2
- t(9;22) BCR::ABL1
- **9p JAK2 break apart probe**

MDS (Myelodysplastic Syndrome)

- del(13)(D13S319)/-13
- Monosomy 5/5q- EGR1
- Monosomy 7/7q-
- 8 centromere and 20q-
- 11q23 KMT2A
- 17p13 TP53

MPN (Myeloproliferative Neoplasm)

- del(13)/+21
- monosomy 5/5q- EGR1
- monosomy 7/7q-
- 8 centromere and 20q-
- t(9;22) BCR::ABL1
- **17p13 TP53**

MPN/MDS combined

- del(13)/+21
- 5/5q- EGR1
- 7/7q-
- 8 centromere and 20q-
- t(9;22) BCR::ABL1 (also detecting +9)
- 11q23 KMT2A
- 17p13 TP53