

**Clinical and Molecular Cytogenetics Laboratory**  
**Department of Pathology and Laboratory Medicine**

CLIA No. 45D0660483 CAP No. 2143301

**LIST OF FLUORESCENCE IN SITU HYBRIDIZATION PROBES – HEMATOLOGICAL MALIGNANCIES**

**ACUTE MYELOGENOUS LEUKEMIA (AML) / MYELODYSPLASTIC SYNDROME (MDS) PANEL\***

5q deletion / monosomy 5	TAS2R1 / EGR1	Cytocell (cat # LPH024)
7q deletion / monosomy 7	RELN / TES	Cytocell (cat # LPH025)
t(8;21)	ETO / AML1	Cytocell (cat # LPH026)
11q rearrangement	MLL	Cytocell (cat # LPH013)
t(15;17)	PML / RARA	Cytocell (cat # LPH023)
inv(16)	MYH11 / CFBF	Cytocell (cat # LPH022)
17p deletion	p53	Cytocell (cat # LPH017)
20q deletion / monosomy 20	MYBL2 / PTPRT	Cytocell (cat # LPH020)

**ACUTE LYMPHOCYTIC LEUKEMIA (ALL) PANEL (B-cell)\***

8q rearrangement	cMYC	Cytocell (cat # LPH010)
9p deletion	p16 / D9Z3	Cytocell (cat # LPH009)
hyperdiploidy – chr. 4	FIP1L1 / CHIC2 / PDGFRA	Cytocell (cat # LPH032)
hyperdiploidy – chrs. 10 & 17	D10Z1 / D17Z1	Cytocell (cat # LPE010G/LPE017R)
t(12;21)	ETV6 / AML1	Cytocell (cat # LPH012)
11q rearrangement	MLL	Cytocell (cat # LPH013)
t(9;22)	ABL1 / BCR	Cytocell (cat # LPH038)
14q rearrangement	IGH	Cytocell (cat # LPH014)

**CHRONIC LYMPHOCYTIC LEUKEMIA (CLL) PANEL\***

6q deletion	D6Z1 / MYB	Cytocell (cat # LPH016)
trisomy 12	D12Z1	Cytocell (cat # LPE012R)
11q deletion	D11Z1 / ATM	Cytocell (cat # LPH011)
t(14;18)	IGH / BCL2	Cytocell (cat # LPH018)
14q rearrangement	IGH	Cytocell (cat # LPH014)
17p deletion	p53	Cytocell (cat # LPH017)
t(11;14)	CCND1 / IGH	Cytocell (cat # LPH021)
13q deletion	RB1 / CTB-163C9	Cytocell (cat # LPS011)

### MULTIPLE MYELOMA (MM) PANEL (on isolated plasma cells)\*

11q deletion	D11Z1 / ATM	Cytocell (cat # LPH011)
17p deletion	p53	Cytocell (cat # LPH017)
13q deletion	RB1 / CTB-163C9	Cytocell (cat # LPS011)
t(11;14)	CCND1 / IGH	Cytocell (cat # LPH021)
t(4;14)	FGFR3 / IGH	Cytocell (cat # LPH030)
t(14;16)	IGH / MAF	Cytocell (cat # LPH029)
hyperdiploidy	ATM / MAF / FGFR3	

### MYELOPROLIFERATIVE DISEASE (MPD) PANEL\*

t(9;22)	ABL1 / BCR	Cytocell (cat # LPH038)
4q rearrangement	FIP1L1 / CHIC2 / PDGFRA	Cytocell (cat # LPH032)
T(5;12)	PDGFRB	Cytocell (cat # LPH031)
8p11 rearrangement	FGFR1	Cytocell (cat # LPS018)

### T-CELL LYMPHOMA PANEL\*

inv(7) / iso(7q)	TCRB	Cytocell (cat # LPH048)
inv(14) / 14q rearrangement	TCRAD	Cytocell (cat # LPH047)
t(2;5) / 2p rearrangement	ALK	Cytocell (cat # LPS 019)

### B-CELL LYMPHOMA PANEL\*

t(14;18)	IGH / BCL2	Cytocell (cat # LPH018)
8q rearrangement	cMYC	Cytocell (cat # LPH010)
3q rearrangement	BCL6	Cytocell (cat # LPH035)

### OTHER FISH TESTS

\*Any of the probes listed under panels can be ordered as individual FISH tests in addition to the probes listed below.

t(9;22)	ABL1 / BCR	Cytocell (cat # LPH038)
t(11;22)	EWSR1	Cytocell (cat # LPS006)

If the probe / test you are interested in ordering is not listed here, please contact the laboratory at the number below to inquire.



## **LIST OF FLUORESCENCE IN SITU HYBRIDIZATION PROBES – CONSTITUTIONAL ABNORMALITIES**

### **MICRODELETION PROBES**

22q11 deletion (DiGeorge / VCFS syndrome)      HIRA / TUPLE1      Cytocell (cat #LPU004)

If the probe / test you are interested in ordering is not listed here, please contact the laboratory at the number below to inquire.