Oncology FISH Panels

Test Order Code	Panel	Gene/Location	Aberration
FISHCL	**CLL** (Chronic Lymphocytic Leukemia)		
	13q14.3	D13S319	deletion
	13q34	13q34	deletion
	CEP 12	D12Z3	trisomy
	11q22.3	ATM	deletion
	17p13.1	TP53	deletion
FISHMM	**MM** (Multiple Myeloma)		
	1q21 amplification	CKS1B/CDKN2C	gain
	t(4;14)	FGFR3/IGH	translocation
	t(11;14)	CCND1/MYEOV/IGH	translocation
	13q14.3	D13S319	deletion
	13q34	13q34	deletion
	17p13.1	TP53	deletion
	reflex to t(14;16) if extra 14q signal is seen	IGH/MAF	translocation
FISHMD	**MDS** (Myelodysplastic Syndrome)		
	5q31/5p15.2	EGR1/D5S23, D5S721	deletion/-5
	7q31/CEP7	D7S486/7p11.1-q11.1	deletion/-7
	CEP 8	8p11.1-q11.1	trisomy
	20q12	D20S108	deletion
FISHAG	**AG** (Aggressive Lymphoma)		
	3q27	BCL6	rearrangement
	8q24	C-MYC	rearrangement
	reflex to t(8;14) if MYC is rearranged	C-MYC/IGH/CEP 8	translocation
	t(14;18)	IGH/BCL2	translocation
FISHHE	**HE** (Hypereosinophilia)		
	4q12	PDGFRA	rearrangement
	5q33	PDGFRB	rearrangement
	8p11.2	FGFR1	rearrangement
	t(9;22)	BCR/ABL	translocation
FISHAL	**ALL** (Adult B-cell ALL)		
	t(1;19)	PBX1/TCF3	translocation
	t(9;22)	BCR/ABL	translocation
	11q23	MLL (KMT2A)	rearrangement
	t(12;21)	ETV6/RUNX1	translocation

Probes may be ordered individually
Additional probes may be available upon request

ACL Laboratories
Every Sample is a Life™

Oncology FISH Individual Probes

Test Order Code	Indication/Hematological Disease	Gene/Location	Aberration
	CML (Chronic Myelogenous Leukemia)		
FISHBA	t(9;22)	BCR/ABL	translocation
FISHBM	CEP 8	8p11.1-q11.1	trisomy
	AML (Acute Myelogenous Leukemia)		
FISHPR	t(15;17)	PML/RARA	translocation
FISHBM	t(8;21)	RUNX1T1/RUNX1	translocation
FISHBM	inv(16)	CBFB	rearrangement
FISHBM	11q23	MLL (KMT2A)	rearrangement
	Myelodysplasia		
FISHBM	5q31/5p15.2	EGR1/D5S23, D5S721	deletion/-5
FISHBM	7q31/CEP7	D7S486/7p11.1-q11.1	deletion/-7
FISHBM	20q12	D20S108	deletion
FISHBM	CEP 8	8p11.1-q11.1	trisomy
	NHL (Non-Hodgkin Lymphoma)		
FISHALK	2p23 Anaplastic Large Cell Lymphoma	ALK	rearrangement
FISHBM	t(8;14) Burkitt Lymphoma	C-MYC/IGH/CEP 8	translocation
FISHBM	t(11;14) Mantle Cell Lymphoma	CCND1/MYEOV/IGH	translocation
FISHBM	t(11;18) MALT Lymphoma	BIRC3/MALT1	translocation
FISHBM	t(14;18) Follicular Lymphoma	IGH/BCL2	translocation
FISHBM	8q24 Diffuse Large B-Cell Lymphoma (DLBCL)	C-MYC	rearrangement
FISHBM	3q27 DLBCL	BCL6	rearrangement
	B-CELL ALL (Acute Lymphoblastic Leukemia)		
FISHBM	t(1;19)	PBX1/TCF3	translocation
FISHBA	t(9;22)	BCR/ABL	translocation
FISHBM	11q23	MLL (KMT2A)	rearrangement
FISHBM	t(12;21)	ETV6/RUNX1	translocation
	Solid tumors		
FISHBM	22q12 (Ewing Sarcoma)	EWSR1	rearrangement
FISHBM	18q11.2 (Synovial Sarcoma)	SS18	rearrangement
FISHBM	12q13 (Myxoid Liposarcoma)	DDIT3(CHOP)	rearrangement
FISHBM	16p11.2 (Myxoid Liposarcoma)	FUS	rearrangement
FISHBM	12q15 (Well-differentiated Liposarcoma)	MDM2/CEP12	amplification
FISHBM	1p36/19q13 (Oligodendroglioma)	1p36/1q25, 19q13/19p13	co-deletion
FISHALK	2p23 (Non-small Cell Lung Adenocarcinoma)	ALK	rearrangement
FISHROS	6q22 (Non-small Cell Lung Adenocarcinoma)	ROS1	rearrangement
pathologist	HER2 amplification	HER2/CEP17	amplification
pathologist	alternative 17 controls if HER2 is equivocal	PAFAH1B1/RARA	control
	Bone Marrow Transplant		
FISHBM	XX/XY	CEP X/DYZ1	XX or XY

Additional probes may be available upon request

Aneuploidy FISH Panels

Test Order Code	Panel	Gene	Location
FISHPN	**Prenatal**		
	LSI 13	RB1	13q14
	LSI 21	D21S341/D21S342	21q22.13-q22.2
	CEP 18	D18Z1	18p11.1-q11.1
	CEP X	DXZ1	Xp11.1-q11.1
	CEP Y	DYZ3	Yp11.1-q11.1
FISHPO	**POC (Products of Conception)**		
	LSI 13	RB1	13q14
	CEP 15	D15Z4	15p11.1-q11.1
	CEP 16	D16Z3	16q11.2
	CEP 18	D18Z1	18p11.1-q11.1
	LSI 21	D21S341/D21S342	21q22.13-q22.2
	LSI 22	BCR	22q11.2
	CEP X	DXZ1	Xp11.1-q11.1
	CEP Y	DYZ3	Yp11.1-q11.1
FISHPL	**Ploidy Analysis**		
	CEP 18	D18Z1	18p11.1-q11.1
	CEP X	DXZ1	Xp11.1-q11.1
	CEP Y	DYZ3	Yp11.1-q11.1
	LSI 21	D21S341/D21S342	21q22.13-q22.2

Microdeletion FISH Probes

Test Order Code	Syndrome	Gene	Location
FISHBL	1p36 deletion	p58	1p36/1ptel/1q25
FISHBL	Wolf-Hirschhorn	WHSC1	4p16.3
FISHBL	Cri-du-Chat	D5S721, D5S23	5p15.2
FISHBL	Williams	ELN	7q11.23
FISHBL	DiGeorge II	CUGBP2 (BRUNOL3)	10p14
FISHPW	Prader-Willi	SNRPN	15q11.1-13
FISHAN	Angelman	D15S10	15q11.1-13
FISHBL	Miller-Dieker (Lissencephaly)	PAFAH1B1	17p13.3
FISHBL	Smith Magenis	RAI1	17p11.2
FISHDG	DiGeorge/VCFS	HIRA/ARSA	22q11.2/22q13.3
FISHBL	Steroid Sulfatase Deficiency	STS	Xp22.3
FISHBL	Kallman	KAL	Xp22.3
FISHBL	SRY FISH Anaylsis	DXZ1/SRY	CEPX/Yp11.3
FISHMF	Parental testing for microarray abnormality in child	*varies*	*varies*

Additional probes may be available upon request