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available.



This document provides a general product overview of the HemeScreen CLL Assay. Additional information can be found on Precipio's website at www.precipiodx.com, and the associated IFU (Instructions For Use), available upon request.

Technology Overview	HemeScreen® is a proprietary set of RUO (Research Use Only) reagents used to screen wild type (Negative) from Mutated (Positive) genes in a simple workflow relative to alternative molecular testing technologies (RT-PCR or NGS).							
CLL	Chronic Lymphocytic Leukemia (CLL) is a cancer of the blood and bone marrow affecting the white blood cells.							
Genes Tested	Coverage							
MYD88 Exon 3	c.649G>T; p.V217F, c.656C>G; p.S219C							
MYD88 Exon 4	c.649G>T; p.V217F, c.656C>G; p.S219C							
MYD88 Exon 5	c.794T>C; p.L265P							
CXCR4 Exon 2	c.598C>T; p.Q200*, c.952dup; p.T318Nfs*26, c.959_960del; p.V320Efs*23, c.993dup; p.G332Rfs*12, c.997A>T; p.K333*, c.1000C>T; p.R334*, c.1005dup; p.G336Wfs*8, c.1012_1015del; p.S338Lfs*27, c.1012dup; p.S338Ffs*6, c.1013C>A; p.S338*, c.1013C>G; p.S338*, c.1014_1017del; p.S339Ffs*26, c.1021del; p.S341Pfs*25							
SF3B1 Exon 15	c.1866G>T; p.E622D, c.1866G>C; p.E622D, c.1873C>T; p.R625C, c.1874G>T; p.R625L, c.1984C>G; p.H662D, c.1986C>G; p.H662Q, c.1986C>A; p.H662Q, c.1996A>C; p.K666Q, c.1996A>G; p.K666E, c.1997A>C; p.K666T, c.1997A>G; p.K666R, c.1998G>T; p.K666N, c.1998G>C; p.K666N							
SF3B1 Exon 16	c.2098A>G; p	.K700E						
SF3B1 Exon 17	c.2225G>A; p	.G742D						
NOTCH1 Exon 34	c.7541_75420	leICT; p.P2514Rfs	[*] 4					
Results	The results fro	om HemeScreen®	CLL are qualita	tive.				
Associated WHO/NCCN Guidelines ¹	Per the WHO: The genomic landscape of CLL/SLL is very heterogeneous, lacking a unifying genetic lesion. The most frequent chromosomal aberrations are deletions of 13q [del(13q)], 11q [del(11q)], 17p [(del(17p)] and trisomy 12. Occurring in 50-60% of patients, del(13q) removes the DLEU2-mir-15-16 cluster, which regulates expression of anti-apoptotic and cell cycle regulatory proteins { 20060366; 16166262 }. del(11q), detected in 10-20% patients, removes ATM, while del(17p) (5-10% of patients) results in loss of TP53. Trisomy 12 occurs in 15-20% of patients, although the genes involved remain unknown { 26466571; 28584254; 26200345 }. The most frequently mutated genes in CLL/SLL at the time of first treatment are NOTCH1 (10-15%), ATM (10-15%), SF3B1 (10%), TP53 (5-10%), and BIRC3 (5%) { 26466571; 26200345 }. Genetic aberrations commonly involve TP53 mutations and/or del(17p) (60-70% of cases), NOTCH1 mutations (30%), activation of MYC by translocation, amplification or mutation (30%), and 9p21 deletion affecting CDKN2A (20%). One or more of these abnormalities is present in 90% of RT cases, typically acquired at transformation { 24127483; 22077063; 21266718; 24004666 }.							
	Specificity		Sensitivity		LOD		Storage	
Assay Specifications	>99%		98%		2%		-20 °C	
SKU	Product Configuration Assay Contents							
HS-3P-CLL	3 sample pre-plated plate		Primers/M	Primers/MasterMix Mix		Positive controls		Wild Type
Instrument Required	HRM-enable	d RT-PCR (exampl	e ThermoFish	er Quantstudio 3	3 or higher	·)		

For questions, contact our technical support team at techsupport@precipiodx.com or call 203-787-7888

The information in this document represents the company's best understanding of the technical and regulatory landscape; however, it

should not serve as any guidance to any laboratory seeking to implement HemeScreen. Laboratory managers and medical directors should seek their own information independently through their CLIA inspector and any other state and federal regulatory body