

## TRUPCR® Acute Leukemia Panel Kit

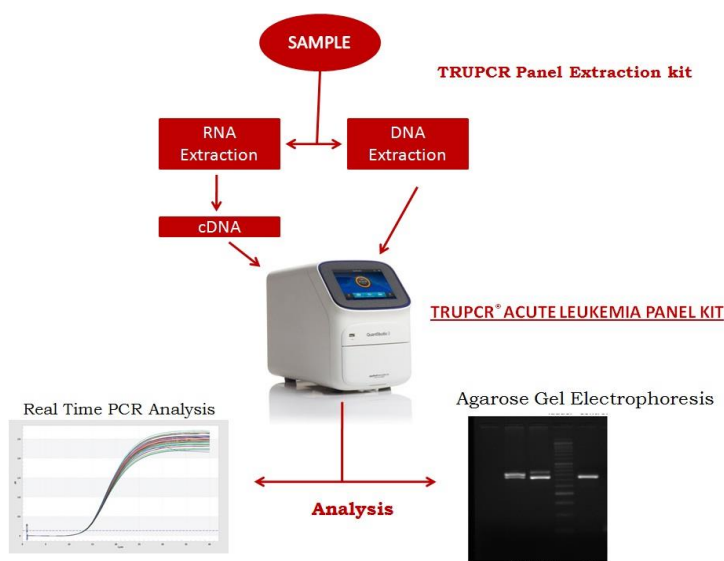
### NEED

Leukemia is defined as neoplastic proliferation of abnormal white blood cells (WBCs) and Acute Myeloid Leukemia (AML) is a group of hematological diseases, phenotypic and genetically heterogeneous, characterized by clonal expansion of myeloid precursors with diminished capacity for differentiation. AML represents 15 to 20% of acute leukemia cases in children and 80% in adults. Acute Lymphoblastic Leukemia (ALL) is mainly a disease of childhood that arises from recurrent genetic alterations that block precursor B- and T-cell differentiation and drive aberrant cell proliferation and survival. Usually one or more molecular abnormalities are found in acute leukemias and because of this configure a strong prognostic factor within the WHO classification. Currently molecular markers are considered as the most important markers for disease classification, risk stratification and treatment of leukemia patients.

### SOLUTION BY TRUPCR®

The TRUPCR® Acute Leukemia Panel Kit is intended for the qualitative detection & differentiation of 18 diagnostic and prognostic markers of Acute Myelogenous Leukemia (AML) and Acute Lymphoblastic Leukemia (ALL) in peripheral blood samples using real-time PCR.

### WORKFLOW



### TECHNICAL SPECIFICATIONS

- Sample Type – EDTA Blood / Bone Marrow
- All Inclusive Kit as all reagents for cDNA chemistry, PCR and real-time PCR are included
- Sensitivity to detect up to 10 copies of fusion transcripts (AML1-ETO, CBFβ-MYH11, BCR-ABL1, PML-RARA, E2A-PBX1, TEL-AML1, MLL-AF4, MLL-ENL, MLL-AF9, MLL-AF6, MLL-AF10, RBM15-MKL1, DEK-CAN and SET-CAN) and to 1% mutant allele in background of 99% wild type allele for C-KIT, NPM1 and FLT3-D835, I836 & ITD and to 5% mutant allele in background of 95% wild type allele IDH1/2.
- Compatible Instruments – Applied Biosystems™ 7500 series, Applied Biosystems™ StepOne series, Applied Biosystems™ QuantStudio® series, Rotor-Gene Q, Bio-Rad CFX96, CFX384, AriaMx Real-Time PCR, Roche - LightCycler® 480 – II, Line gene K Real-Time PCR

### MARKERS

Gene	Variant	Technique	Requirement
CBFB-MYH11	Type A	Reverse Transcription Real-Time PCR	RNA
	Type E		
	Type D		
BCR-ABL1	e13a2 & e14a2 (p210)		
	e1a2 (p190)		
	e19a2(p230)		
PML-RARA	BCR1		
	BCR2		
	BCR3		
AML1-ETO	RUNX1-RUNX1T1		
E2A-PBX1	TCF3-PBX1		
TEL-AML1	BCL2L14-RUNX1		
MLL-AF4	MLL_AF4_e10-e4		
	MLL_AF4_e9-e4		
	MLL_AF4_e9-e5		
	MLL_AF4_e11-e4		
MLL-ENL	MLL_AF4_e9-e6		
	MLL_ENL_e9-e2		
MLL-AF9	MLL_ENL_e10-e2		
	MLL_AF9_e8-e9		
	MLL_AF9_e8-e10		
MLL-AF6	MLL_AF9_e10-e6		
	MLL_AF6_e9-e2		
MLL-AF10	MLL_AF10_e9-e4		
RBM15-MKL1	RBM15_MKL1_e1-e5		
DEK-CAN	DEK_CAN_e9-e18		
SET-CAN	SET_CAN_e7-e18		
C-KIT	D816V	Real-Time PCR	DNA
NPM1	Type A		
	Type B		
	Type D		
FLT3	TKD (D835Y, D835V, D835H & I836)		
IDH1	R132H, R132C, R132S, R132G, R132L, R132V & R100Q		
IDH2	R140W, R140Q, R172K, R172S, R172S, R172M, R172G & R172W		

### ORDERING INFORMATION

Cat. No.	Description	Size
3B1406	TRUPCR® Acute Leukemia Panel Kit	24 Reactions
3B1407	TRUPCR® Acute Leukemia Panel Kit	48 Reactions

