

Patient ID SA00175528	Patient Name TESTING, BALFP_NORMAL	Birth Date 2001-01-01	Sex F	Age 24
Order Number SA00175528	Client Order Number SA00175528	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 06 May 2025 00:00		

Pediatric B-ALL/LBL panel, FISH

Result Summary

MCR

Normal

Interpretation

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The result is within normal limits for the B-ALL FISH panel as well as FISH probes for the Ph-like B-ALL panel. In addition, no deletion of IKZF1 was observed.

Result Table

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Abnormality Name	Result	Abn% Cutoff%
Xp22.33/Yp11.32(3'CRLF2retention,5'loss)	Normal	<10.0
t(9;22) BCR::ABL1 fusion	Normal	<4.0
t(1;19) TCF3::PBX1 fusion	Normal	<4.0
der(19)t(1;19) TCF3::PBX1 fusion	Normal	<4.0
+4CEN(D4Z1x3)	Normal	<20.0
+10CEN(D10Z1x3)	Normal	<7.0
+17CEN(D17Z1x3)	Normal	<7.0
t(12;21) ETV6::RUNX1 fusion	Normal	<4.0
+21q22(RUNX1x3)	Normal	<7.0
14q32(IGH sep)	Normal	<15.0
8q24.21(MYC sep)	Normal	<10.0
t(8;14) IGH::MYC fusion	Normal	<4.0
11q23(KMT2A sep)	Normal	<10.0
1q25(ABL2 sep)	Normal	<10.0
5q32(PDGFRB sep)	Normal	<15.0
9p24.1(JAK2 sep)	Normal	<10.0
9q34(ABL1 sep)	Normal	<15.0
-7p12.2(IKZF1dimx1,IKZF1x1,Cep7x2)	Normal	<7.0

Result

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Interphase FISH is normal for all loci studied.

Reason for Referral

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r/o B-cell ALL

Specimen

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Bone Marrow

Source

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Left iliac crest

Method

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Locus and probes	[Strategy;#Nuclei;Vendor]
Xp22.33/Yp11.32(3'CRLF2,5'CRLF2)	[BAP;100;C]
1q23(PBX1), 19p13.3(TCF3)	[DFISH;200;LDT]
1q25(3'ABL2,5'ABL2)	[BAP;100;LDT]
4CEN(D4Z1), 10CEN(D10Z1), 17CEN(D17Z1)	[COPY#;100;AM]
5q32(3'PDGFRB,5'PDGFRB)	[BAP;100;LDT]
7p12.2(IKZF1), 7CEN(CEP7)	[COPY#;100;AT]
8CEN(D8Z2), 8q24.21(MYC), 14q32(IGH)	[DFISH;200;AM]
8q24.21(5'MYC,3'MYC)	[BAP;100;AM]
9p24(5'JAK2,3'JAK2)	[BAP;100;LDT]
9q34(5'ABL1,3'ABL1)	[BAP;100;LDT]
9q34(ABL1), 22q11.2(BCR)	[DFISH;200;AM]
11q23(5'KMT2A,3'KMT2A)	[BAP;100;AM]
12p13(ETV6), 21q22(RUNX1)	[DFISH;200;LDT]
14q32(3'IGH,5'IGH)	[BAP;100;LDT]

Probe strategies include:
DFISH=dual color, double fusion;
BAP=break-apart probe;
COPY#=region gain and loss.
Scoring Method: Manual

Probe vendors include:
LDT = Mayo Clinic Developed
AM = Abbott Molecular, Inc (Des Plaines, IL)

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	Nikola Baumann Ph.D.	24D0404292



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C = Cytocell, Inc. (Cambridge, UK)

Updated Gene Symbols
KMT2A: previously reported as MLL

Disclaimer

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Applicable to Analyte Specific Reagent (ASR) and Laboratory Developed Tests (LDT). This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the U.S. Food and Drug Administration. This FISH test does not rule out other chromosome abnormalities.

Released By

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Xinjie Xu, Ph.D.

Received: 13 May 2025 10:48

Reported: 21 May 2025 14:05

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