

Acute Myeloid Leukemia (AML)

Analysis	Quantity/Material	Pre-analytics/Notes	Frequency Test duration	Method
Tumor Cytogenetics	at least 3 ml heparinised bone marrow or 5 ml heparinised blood	For bone marrow use sterile heparin transport medium (available on request). Alternative: bone marrow in heparin monovette	daily Mo.-Fr. 12-14 days	unstimulated and stimulated cultures; chromosome analysis (GTG bands)
Molecular Cytogenetics <u>AML panel:</u> t(3;3) GATA2/MECOM del 5q31.2 (EGR1) / -5 t(6;9) DEK/NUP24 del 7q22 (KMT2E)/7q36 (EZH2) 8p11.2 FGFR1 rearrangement t(8;21) RUNX1/RUNX1T1 t(9;22) BCR/ABL1 11q23.3 KMT2A rearrangement t(15;17) PML/RARA inv(16) MYH11/CBFB del 17p13.1 (TP53)/17q11.2 (NF1)	at least 3 ml heparinised bone marrow or 5 ml heparinised blood	When performed with conventional chromosome analysis, no separate material is required.	daily Mo.-Fr. 5-7 days, 12-14 days with chromosome analysis	Fluorescence in situ hybridization (FISH) after enrichment of CD34-positive mononuclear cells

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Molecular Genetics ASXL1 ⁺ CEBPA ⁺ cKIT ⁺ FLT3 ⁺ IDH1 ⁺ IDH2 ⁺ NPM1 ⁺ RUNX1 ⁺ TP53 ⁺ t(8;21) RUNX1/RUNX1T1 t(15;17) PML/RARA inv(16) MYH11/CBFB	3 ml blood (EDTA) or 3 ml bone marrow (EDTA)	Translocations: Limited stability of the sample. Storage at room temperature. Sample should be in the laboratory within 24 hours.	2x / week as needed	Sequencing, PCR, gel electrophoresis (translocations)
Immunophenotyping leukemia panel ⁺	5 ml blood (EDTA) or 3 ml bone marrow (EDTA)	Limited stability of the sample. Storage at room temperature. Sample should be in the laboratory within 24 hours. Submission: Monday to Thursday	daily Mo.-Fr.	Flow cytometry

Request forms for the analyses are available in the download area of our homepage.