

Chronic Myeloid Leukemia (CML)

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 t(3;3) GATA2/MECOM del 7q22 (KMT2E)/7q36 (EZH2) 8q21.3-22.1 (RUNX1T1)/ 21q22.1 (RUNX1) t(9;22) BCR/ABL1 11q23.3 KMT2A rearrangement del 17p13.1 (TP53)/17q11.2 (NF1) del 19p13.2 (ZNF443)/ 19q13.3 (GLTSCR)	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)
Molecular Genetics t(9;22) BCR/ABL qualitative t(9;22) BCR/ABL quantitative abl1 + <u>atypical CML:</u> SETBP1 + ETNK1 +	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.