

### Chronic Myeloid Leukemia (CML)

Analysis	Quantity/Material	Pre-analytics/Notes	Frequency Test duration	Method
<b>Tumor Cytogenetics</b>	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)
<b>Molecular Cytogenetics</b> t(9;22) BCR/ABL1  <u>Progression marker:</u> +8 +19 del 17p13.1 (TP53) / 17q11.2	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)
<b>Molecular Genetics</b> 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)
<b>Immunophenotyping</b> 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.