Acute Lymphatic Leukemia (ALL)

Analysis	Quantity/Material	Pre-analytics/Notes	Frequency Test duration	Method
Microscopic chromosome analysis	5 ml heparinised bone marrow or 7.5 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	Microscopic chromosome analysis
Fluorescence in situ hybridization (FISH) t(9;22) BCR/ABL 12p13.2 ETV6 rearrangement	5 ml heparinised bone marrow or 7.5 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	FISH
Molecular genetics t(9;22) BCR/ABL qualitative t(9;22) BCR/ABL quantitative t(1;19) PBX1/E2A t(4;11) AF4/MLL abl1 mutations (TKI resistence) + TP53 +	10 ml blood (EDTA) or 5 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	 PCR, gel electrophoresis Real-time PCR PCR, gel electrophoresis PCR, gel electrophoresis Sequencing Sequencing
Immunophenotyping B-ALL panel T-ALL 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.