

Myeloproliferative Neoplasia (MPN)

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>MPN panel:</u> del 5q31 / -5 del 7q22 / 7q36 / -7 +8 t(9;22) BCR/ABL1 del 17p13.1 (TP53) / 17q11.2 del 20q12 / 20qter <u>Eosinophilia panel:</u> 4q12 FIP1L1-PDGFR α rearrangement 5q32-q33.1 PDGFR β rearrangement 8p11.2 FGFR1 rearrangement 9p24 JAK2 rearrangement	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)

<p>Molecular Genetics ASXL1 ⁺ CALR ⁺ CBL ⁺ IDH1 ⁺ IDH2 ⁺ JAK2 (V617F) JAK2 (Exon 12-14) ⁺ MPL ⁺ RUNX1 ⁺ SF3B1 ⁺ SRSF2 ⁺ TP53 ⁺ U2AF1 ⁺</p>	<p>3 ml blood (EDTA) or 3 ml bone marrow (EDTA)</p>		<p>2x / week as needed</p>	<p>Sequencing</p>
<p>Immunophenotyping leukemia panel</p>	<p>5 ml blood (EDTA) or 3 ml bone marrow (EDTA)</p>	<p>Limited stability of the sample. Storage at room temperature. Sample should be in the laboratory within 24 hours. Submission: Monday to Thursday</p>	<p>daily Mo.-Fr.</p>	<p>Flow cytometry</p>

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