

## Current list of all examination procedures within the (flexible) scope of accreditation

Status: 19.07.2024

Note: Changes to the previous version are marked **green**

Within the test areas marked with \*, the laboratory is permitted to freely select standardized or equivalent test methods without being required to inform and obtain prior approval from the Deutsche Akkreditierungsstelle GmbH.

Within the test areas marked with \*\*, the laboratory is permitted to modify, further develop and develop new test methods without prior information and approval from DAkkS GmbH.

### Field of investigation: Clinical chemistry

#### Type of examination:

##### Microscopy\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Berlin blue reaction	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-015- <b>20</b>
Naphthyl acetate esterase	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-014- <b>23</b>
Peroxidase reaction	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-018- <b>19</b>
Differentiation	Peripheral blood	Bright field microscopy	AA-Z-031- <b>11</b>
Differentiation	Bone marrow	Bright field microscopy	AA-Z-031- <b>11</b>
Toluidine blue coloration	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-009- <b>12</b>
Pappenheim staining	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-016-11
Fast coloring	Bone marrow, peripheral blood	Bright field microscopy	AA-Z-012- <b>10</b>
Examination of cytopsin preparations	Liquor	Bright field microscopy	AA-Z-013- <b>17</b>

#### Type of examination:

##### Flow cytometry (incl. determination of particle properties)\*

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Immune status	Peripheral blood	Flow cytometry	GA-I-004- <b>16</b> , FB-I-024-06
CLL/B-NHL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-038- <b>31</b>
T-NHL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-048-06

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
AML, MPN	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-052-29
ALL	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-051-14
Multiple myeloma	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-045-14, AA-I-039-16
PNH	Bone marrow, peripheral blood	Flow cytometry	AA-I-018-24
MDS	Bone marrow, peripheral blood	Flow cytometry	AA-I-044-23, AA-I-046-06, FB-I-019-34
Erythrocytes (spherocytosis)	Peripheral blood	Flow cytometry	AA-I-041-15
Mast cells (mastocytosis)	Bone marrow, peripheral blood	Flow cytometry	AA-I-057-16
CD138-based purification of plasma cells	Bone marrow	MACS	AA-Z-024-37
Small blood count	Peripheral blood	Resistance measurement/ fluorescence flow cytometry	AA-L-004-06, GA-P-007-02, GA-G-005-02, KA-L-003-01
Differential blood count (machine)	Peripheral blood	Fluorescence flow cytometry	AA-L-004-06, GA-G-005-02, KA-L-003-01
Reticulocytes	Peripheral blood	Fluorescence flow cytometry	AA-L-004-06, GA-G-005-02, KA-L-003-01

**Type of examination:**

**Spectrometry (nephelometry / immunonephelometry)\***

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
C-reactive protein (CRP)	Serum	Immunonephelometry	KA-L-001-05, AA-L-003-11, GA-L-002-05, KA-L-004-02
Ferritin	Serum	Immunonephelometry	KA-L-001-05, AA-L-003-11, GA-L-002-05, KA-L-004-02
Soluble transferrin receptor	Serum	Immunonephelometry	KA-L-001-05, AA-L-003-11, GA-L-002-05, KA-L-004-02

**Type of examination:**

**Electrophoresis\***

Analyte (measured variable)	Test material (matrix)	Examination technique	Instruction/version
Hemoglobin variants	Peripheral blood	Capillary electrophoresis	AA-L-001-11, FB-L-001-05, GA-L-001-07

## Research area: Human genetics (molecular human genetics)

### Type of examination:

#### Molecular biological tests (amplification methods)\*\*

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
(DNMT3A, FLT3, IDH1, IDH2, SF3B1, TP53) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	digital PCR	AA-M-148-15
TPSAB1 <sup>3</sup>	DNA, peripheral blood; DNA	digital PCR CNV analysis	AA-M-186-10
Chimärismus <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Fragment analysis	AA-M-003-25
<del>BCR<sup>2</sup></del>	<del>DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples<sup>1</sup>; DNA</del>	<del>Fragment analysis</del>	<del>AA-M-006-14; AA-M-168-05</del>
IKZF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Fragment analysis	AA-M-078-09
FLT3-ITD <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA, DNA	Fragment analysis	AA-M-137-18
<del>NPM1<sup>2</sup></del>	<del>RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples<sup>1</sup>; cDNA, DNA</del>	<del>Fragment analysis</del>	<del>AA-M-006-14</del>
IGHV <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples; cDNA, DNA	Fragment analysis, Sanger sequencing	AA-M-008-32
(HbA, HbB) <sup>3</sup>	DNA, peripheral blood; DNA	MLPA	AA-M-195-08
(HFE, ELANE) <sup>3</sup>	DNA, peripheral blood; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)
ANKRD26 <sup>3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
(ARID1A, ASXL1, ASXL2, ATM, ATRX, BAX, BCL2, BCOR, BCORL1, BIRC3, BPGM, BRAF, BTK, CARD11, CBL, CCL22, CDKN2A, CREBBP, CRLF2, CSF3R, CSNK1A1, CUX, CXCR4, DNMT3A, EGLN1, EGR2, EP300, EPAS1, EPO, EPOR, ETNK1, EZH2, FBXW7, FLT3, FOXO1, GATA1, GNAS, HRAS, ID3, IDH1, IDH2, IKZF1, JAK1, JAK3, KIT, KLF2, KLHL6, KRAS, MAP2K1, MAPK1, MEF2B, MYC, MYD88, NF1, NFKBIE, NOTCH1, NOTCH2, NRAS, PAX5, PHF6, PIGA, PLCG2, POT1, PPM1D, PRPF8, PTEN, PTPN11, RAD21, RPS15, SAMHD1, SETBP1, SETD2, SF3A1, SF3B1, SH2B3, SMC1A, SRSF2, STAG2, STAT3, STAT5B, TCF3, TET2, TP53, U2AF1, U2AF2, UBA1, UBR5, VHL, WT1, XPO1, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)
(CEBPA, DDX41, ETV6, GATA2, RUNX1, TERC, TERT) <sup>2, 3</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)
(CALR, JAK2, MPL, NPM1) <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA, DNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)
BCR-ABL1 mutation <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	Next generation sequencing (sequencing-by-synthesis, amplicon-based, JSI)	AA-M-141-20; Illumina NGS Amplicon Pipeline (OA-M-002-07)
(TRB, TRG) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, LymphoTrack <sup>®</sup> Dx MiSeq Data Analysis)	AA-M-198-14; T cell receptor clonality analysis using NGS (VB-M-252-01)

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
(IgH, IgK) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, amplicon-based, LymphoTrack® Dx MiSeq Data Analysis)	AA-M-198-14; B-cell receptor clonality analysis using NGS (VB-M-276-02)
Gene panel "Lymphatic diseases" (ARID1A, ATM, ATR, BCL10, BCL2, BIRC3, BRAF, BTK, CARD11, CCL22, CCND1, CD28, CD79B, CREBBP, CXCR4, DIS3, DNMT3A, EGR1, EP300, ETV6, EZH2, FBXW7, FLT3, FOXO1, FYN, ID3, IDH2, IKZF1, IL7R, IRF4, JAK1, JAK2, JAK3, KLF2, KLHL6, KMT2D, KRAS, MAP2K1, MEF2B, MYC, MYD88, NOTCH1, NOTCH2, NRAS, PAX5, PHF6, PLCG1, PLCG2, POT1, PTEN, RHOA, RPS15, RUNX1, SF3B1, SGK1, SOCS1, STAT3, STAT5B, STAT6, TET2, TNFAIP3, TP53, UBR5, VAV1, XPO1, ZEB2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, sequence capture, piscis)	AA-M-154-24, AA-M-158-23; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)
Gene panel "Myeloid diseases" (ASXL1, ASXL2, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CEBPA, CSF3R, CSNK1A1, CUX1, DDX41, DNMT3A, ETNK1, ETV6, EZH2, FBXW7, FLT3, FLT3-ITD, GATA1, GATA2, GNB1, IDH1, IDH2, IL6R, JAK2, KIT, KRAS, MPL, MYD88, NF1, NOTCH1, NPM1, NRAS, PDGFRA, PDGFRB, PHF6, PIGA, PPM1D, PRPF8, PTEN, PTPN11, RAD21, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, SUZ12, TET2, TP53, U2AF1, U2AF2, UBA1, WT1, ZEB2, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)	AA-M-154-24, AA-M-158-23; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
<p>Gene Panel "ITP - Myeloid Diseases" (ASXL1, ASXL2, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CEBPA, CSF3R, CSNK1A1, CUX1, DIS3, DDX41, DNMT3A, ETNK1, ETV6, EZH2, FAT1, FBXW7, FLT3, FLT3-ITD, GATA1, GATA2, GNB1, IDH1, IDH2, IL6R, JAK2, KIT, KRAS, MPL, MYD88, NF1, NOTCH1, NOTCH2, NPM1, NRAS, PDGFRA, PDGFRB, PHF6, PIGA, PPM1D, PRPF8, PTEN, PTPN11, RELN, RAD21, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, SUZ12, TET2, TP53, U2AF1, U2AF2, UBA1, WT1, ZEB2, ZRSR2)<sup>2</sup></p>	<p>DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples<sup>1</sup>; DNA</p>	<p>Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)</p>	<p>AA-M-154-24, AA-M-158-23; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)</p>
<p>Gene Panel "Familial Erythrocytosis - Screening" (BHLHE41, BPGM, EGLN1, EGLN2, EGLN3, EPAS1, EPO, EPOR, GFI1B, HBA1, HBA2, HBB, HIF1A, HIF1AN, HIF3A, JAK2, KDM6A, OS9, SH2B3, VHL, ZNF197)<sup>3</sup></p>	<p>DNA, peripheral blood; DNA</p>	<p>Next generation sequencing (sequencing-by-synthesis, exome sequencing, sequence capture, pisces)</p>	<p>AA-M-154-24, AA-M-158-23; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT Panel (VB-M-224-03)</p>

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Gene Panel "Hematologic Neoplasia" (ARID1A, ASXL1, ASXL2, ATM, ATR, ATRX, BCL2, BCL10, BCOR, BCORL1, BIRC3, BRAF, BTK, CALR, CARD11, CBL, CCL22, CCND1, CD28, CD79B, CEBPA, CREBBP, CSF3R, CSNK1A1, CUX1, CXCR4, DDX41, DIS3, DNMT3A, EGR1, EP300, ETNK1, ETV6, EZH2, FBXW7, FLT3, <i>FLT3-ITD</i> , FOXO1, FYN, GATA1, GATA2, GNB1, ID3, IDH1, IDH2, IKZF1, IL6R, IL7R, IRF4, JAK1, JAK2, JAK3, KIT, KLF2, KLHL6, KMT2D, KRAS, MAP2K1, MEF2B, MPL, MYC, MYD88, NF1, NOTCH1, NOTCH2, NPM1, NRAS, PAX5, PDGFRA, PDGFRB, PHF6, PIGA, PLCG1, PLCG2, POT1, PPM1D, PRPF8, PTEN, PTPN11, RAD21, RHOA, RPS15, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SGK1, SH2B3, SMC1A, SMC3, SOCS1, SRSF2, STAG2, STAT3, STAT5B, STAT6, SUZ12, TET2, TNFAIP3, TP53, U2AF1, U2AF2, UBA1, UBR5, VAF1, WT1, XPO1, ZEB2, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, Strelka/Pindel)	AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)
Expression analysis for grouping B-ALL	RNA, bone marrow aspirates, peripheral blood; RNA	Next generation sequencing (sequencing-by-synthesis, RNA sequencing, cufflinks)	AA-M-146-09; RNA-Seq Workflow (OA-M-015-06), NEBNext Ultra II Directional RNA Library Prep (VB-M-264-01); Grouping (VB-M-273-01)

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Gene Panel "Hematologic Neoplasia" (ARID1A, ASXL1, ASXL2, ATM, ATR, ATRX, BCL2, BCL10, BCOR, BCORL1, BIRC3, BRAF, BTK, CALR, CARD11, CBL, CCL22, CCND1, CD28, CD79B, CEBPA, CREBBP, CSF3R, CSNK1A1, CUX1, CXCR4, DDX41, DIS3, DNMT3A, EGR1, EP300, ETNK1, ETV6, EZH2, FBXW7, FLT3, FLT3-ITD, FOXO1, FYN, GATA1, GATA2, GNB1, ID3, IDH1, IDH2, IKZF1, IL6R, IL7R, IRF4, JAK1, JAK2, JAK3, KIT, KLF2, KLHL6, KMT2D, KRAS, MAP2K1, MEF2B, MPL, MYC, MYD88, NF1, NOTCH1, NOTCH2, NPM1, NRAS, PAX5, PDGFRA, PDGFRB, PHF6, PIGA, PLCG1, PLCG2, POT1, PPM1D, PRPF8, PTEN, PTPN11, RAD21, RHOA, RPS15, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SGK1, SH2B3, SMC1A, SMC3, SOCS1, SRSF2, STAG2, STAT3, STAT5B, STAT6, SUZ12, TET2, TNFAIP3, TP53, U2AF1, U2AF2, UBA1, UBR5, VAF1, WT1, XPO1, ZEB2, ZRSR2) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, exome sequencing, sequence capture, Pisces, Pindel)	AA-M-153-06, AA-M-158-23, AA-M-154-24; IDT Enrichment Pipeline (OA-M-014-10); TruSeq DNA Exome LibraryPrep Kit with IDT (VB-M-032-02)
Gene Panel "Hemoglobinopathies" (HBA1, HBA2, HBB) <sup>3</sup>	DNA, peripheral blood; DNA	Next Generation Sequencing (sequencing-by-synthesis, sequence capture, Pisces, Pindel)	AA-M-154-23, AA-M-158-23; IDT Enrichment Pipeline (OA-M-014-10); Nextera Flex IDT-HB Panel (VB-M-243-01)
Chromosome number (CNV, Copy Number Variation) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, GATK)	AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)



Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Fusion panel (CBFB-MYH11, EP300-ZNF384, ETV6-RUNX1, RUNX1-RUNX1T1, TCF3-PBX1) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood; RNA	Next generation sequencing (sequencing-by-synthesis, RNA sequencing, Manta)	AA-M-146-09; RNA-Seq Workflow (OA-M-015-06), NEBNext Ultra II Directional RNA Library Prep (VB-M-264-01)
SV-Panel (t(8;21)(q22;q22),inv(16)(p13q22),t(16;16)(p13;q22),t(15;17)(q24;q21),t(1;19)(q23;p13),t(1;3)(p36;q21),t(10;11)(p12;q23)/KMT2A-MLLT10,t(10;14)(q24;q11),t(11;14)(q13;q32),t(11;19)(q23;p13.1)/KMT2A-ELL,t(11;19)(q23;p13.3)/KMT2A-MLLT1,t(12;21)(p13;q22),inv(14)(q11q32),t(14;14)(q11;q32),t(14;18)(q32;q21),t(14;18)(q32;q21) Mehrwege,t(14;19)(q32;q13.32),t(14;19)(q32;q13.11),t(2;11)(p21;q24.1),t(2;7)(p11;q21),t(3;14)(q27.3;q32),t(3;21)(q26;q11),t(8;14)(q24;q32),inv(3)(q21q26),t(4;11)(q21;q23),t(5;12)(q33;p13),t(6;11)(q27;q23),t(6;9)(p23;q34),t(8;13)(p11;q12),t(8;22)(q24;q11),t(8;22)(p11;q11),t(8;9)(p22;p24),t(9;11)(p21;q23),t(9;14)(p13;q32),t(9;22)(q34;q11),t(X;14)(p22;q32),t(X;14)(q28;q11)) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Next generation sequencing (sequencing-by-synthesis, whole genome sequencing, manta)	AA-M-145-09; WGS Workflow (OA-M-016-08); TruSeq DNA PCR-Free LibraryPrep Kit (VB-M-029-08)
HbA <sup>3</sup>	DNA, peripheral blood; DNA	PCR	AA-M-196-08
(IGH-BCL2, IGH-CCND1) <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	PCR	AA-M-016-21

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
(BCR-ABL1, BCR-FGFR1, CFBF-MYH11, DEK-NUP214, EP300-ZNF384, ETV6-ABL1, ETV6-MECOM, ETV6-RUNX1, KMT2A-AFF1, KMT2A-ARHGEF12, KMT2A-CBL, KMT2A-ELL, KMT2A-MLLT1, KMT2A-MLLT1 Exon6, KMT2A-MLLT10, KMT2A-MLLT3, KMT2A-MLLT4, KAT6A-CREBBP_rare, NPM1-MLF1, NUP214-ABL1, NUP98-NSD1, PCM1-JAK2, PICALM-MLLT10, PTPRC-MPL, RBM15-MAL, RUNX1-RUNX1T1, SET-NUP214, STIL-TAL1, TCF3-HLF, TCF3-PBX1, WDR48-PDGFRB, ZBTB16-RARA, ZNF198-FGFR1) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	PCR (primary)	AA-M-016-21
(BCR-ABL1, CFBF-MYH11, EBF1-PDGFRB, ETV6-PDGFRB, ETV6-MECOM, ETV6-RUNX1, FIP1L1-PDGFRB, H4-PDGFRB, KAT6A-CREBBP, KMT2A-AFF1, KMT2A-MLLT3, PCM1-JAK2, PICALM-MLLT10, PML-RARA, SET-NUP214, STIL-TAL1, ZBTB16-RARA) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	PCR (nested)	AA-M-015-19, AA-M-016-21
IGH-BCL2 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Real time PCR	AA-M-009-32
IKZF1 <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Real time PCR	AA-M-063-11

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
(BCR-ABL1, BRAF, CBFβ-MYH11, CyclinD1, DEK-NUP214, ETV6-ABL1, ETV6-RUNX1, KMT2A-AFF1, KMT2A-ELL, KMT2A-MLLT1, KMT2A-MLLT10, KMT2A-MLLT3, KMT2A-MLLT4, KMT2A-MLLT6, KMT2A-PTD, <del>MECOM</del> , MYD88, <del>NUP214-ABL1</del> , NUP98-NSD1, PDGFRA, PDGFRB, RUNX1-RUNX1T1, SOX11, TCF3-PBX1, ZBTB16-RARA, ZNF198-FGFR1 ) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32
( <del>BAALG</del> , CRLF2, WT1) <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	Real time PCR	AA-M-041-35
PML-RARA <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	Real time PCR	AA-M-009-32, AA-M-066-22
JAK2 <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA, DNA	Real time PCR	AA-M-009-32
KIT <sup>2</sup>	RNA, DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA, DNA	Real time PCR	<del>AA-M-009-32</del> , AA-M-041-35
NPM1 <sup>2</sup>	RNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; cDNA	Real time PCR, digital PCR	AA-M-041-35, AA-M-148-15
TCR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Sanger sequencing, Real time PCR	AA-M-063-11
BCR <sup>2</sup>	DNA, bone marrow aspirates, peripheral blood, body fluids, tissue samples <sup>1</sup> ; DNA	Sanger sequencing, Real time PCR	KA-M-262-04, AA-M-063-11
DPYD <sup>2</sup>	DNA, peripheral blood; DNA	Melting curves	AA-M-176-04

## Field of investigation: Human genetics (cytogenetics)

Type of examination:

Chromosome analysis\*:

Analyte (measured variable)	Examination material (input material; test material if necessary)	Examination technique	Instruction+Version Pipeline/Kit/Panel+Version
Acquired chromosome set	Bone marrow, peripheral blood	Chromosome banding analysis, FISH with locus-specific and centromere-specific probes on metaphases and interphases, chromosome painting on metaphases, 24-color karyotyping on metaphases	AA-C-001-72, AA-C-003-19, AA-C-005-17, AA-C-006-38, AA-C-007-06, AA-C-008-09, AA-F-006-20, AA-F-007-25, AA-F-008-20, AA-F-010-08, AA-F-011-14, AA-F-012-07

<sup>1</sup> The samples are processed and analyzed by the laboratory without prior histological evaluation

<sup>2</sup> Identification of clonality markers or genetic alterations in hematologic neoplasms

<sup>3</sup> Detection of hereditary changes