

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the medical laboratory

Foundation Medicine GmbH

Nonnenwald 2, Gebäude 433, 82377 Penzberg

is competent under the terms of DIN EN ISO 15189:2014 to carry out examinations in the following fields:

Medical Laboratory Diagnostics

Medical laboratory fields:

Human genetics (molecular human genetics)


The accreditation certificate shall only apply in connection with the notice of accreditation of 11.02.2021 with the accreditation number D-ML-21105-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 4 pages.

Registration number of the certificate: **D-ML-21105-01-00**

Frankfurt am Main,
11.02.2021J

Dipl.-Biol. Uwe Zimmermann
Head of Division

Translation issued:
11.02.2021



Head of Division

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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10117 Berlin

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Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu



Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-ML-21105-01-00 according to DIN EN ISO 15189:2014

Valid from: 11.02.2021

Date of issue: 11.02.2021

Holder of certificate:

Foundation Medicine GmbH
Nonnenwald 2, Gebäude 433, 82377 Penzberg

Examinations in the field:

Medical Laboratory Diagnostics

Medical laboratory fields:

Human genetics (molecular human genetics)

Within the given type of examination marked with *), the medical laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standards or equivalent examination procedures.

The listed examination procedures are exemplary. The medical laboratory maintains a current list of all examination procedures within the flexible scope of accreditation.

The management system requirements of DIN EN ISO/IEC 15189 are written in the language relevant to the operations of medical laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue.

The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.

Annex to the Accreditation Certificate D-ML-21105-01-00

Medical laboratory field: Human genetics (molecular human genetics)

Type of examination:

Molecular biological tests (amplification procedures)*

Analyte (measurement parameter)	Test material (matrix)	Test technique
Somatic gene aberrations (ABL1, ACVR1B, AKT1, AKT2, AKT3, ALK, ALOX12B, AMER1, APC, AR, ARAF, ARFRP1, ARID1A, ASXL1, ATM, ATR, ATRX, AURKA, AURKB, AXIN1, AXL, BAP1, BARD1, BCL2, BCL2L1, BCL2L2, BCL6, BCOR, BCORL1, BCR, BRAF, BRCA1, BRCA2, BRD4, BRIP1, BTG1, BTG2, BTK, C11orf30, CALR, CARD11, CASP8, CFBF, CBL, CCND1, CCND2, CCND3, CCNE1, CD22, CD274, CD70, CD74, CD79A, CD79B, CDC73, CDH1, CDK12, CDK4, CDK6, CDK8, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CEBPA, CHEK1, CHEK2, CIC, CREBBP, CRKL, CSF1R, CSF3R, CTCF, CTNNA1, CTNNB1, CUL3, CUL4A, CXCR4, CYP17A1, DAXX, DDR1, DDR2, DIS3, DNMT3A, DOT1L, EED, EGFR, EP300, EPHA3, EPHB1, EPHB4, ERBB2, ERBB3, ERBB4, ERCC4, ERG, ERFF1, ESR1, ETV4, ETV5, ETV6, EWSR1, EZH2, EZR, FAM46C, FANCA, FANCC, FANCG, FANCL, FAS, FBXW7, FGF10, FGF12, FGF14, FGF19, FGF23, FGF3, FGF4, FGF6, FGFR1, FGFR2, FGFR3, FGFR4, FH, FLCN, FLT1, FLT3, FOXL2, FUBP1, GABRA6, GATA3, GATA4, GATA6, GID4, GNA11, GNA13, GNAQ, GNAS, GRM3, GSK3B, H3F3A, HDAC1, HGF, HNF1A, HRAS, HSD3B1, ID3, IDH1, IDH2, IGF1R, IKBKE, IKZF1, INPP4B, IRF2, IRF4, IRS2, JAK1, JAK2, JAK3, JUN, KDM5A, KDM5C, KDM6A, KDR, KEAP1, KEL, KIT, KLHL6, KMT2A, KMT2D, KRAS, LTK, LYN, MAF, MAP2K1, MAP2K2, MAP2K4, MAP3K1, MAP3K13, MAPK1, MCL1, MDM2, MDM4, MED12, MEF2B, MEN1, MERTK, MET, MITF, MKNK1, MLH1, MPL, MRE11A, MSH2, MSH3, MSH6, MST1R, MTAP, MTOR, MUTYH, MYB, MYC, MYCL, MYCN, MYD88, NBN, NF1, NF2, NFE2L2, NFKBIA, NKX2-1, NOTCH1, NOTCH2, NOTCH3, NPM1, NRAS, NT5C2, NTRK1, NTRK2, NTRK3, NUTM1, P2RY8, PALB2, PARK2, PARP1, PARP2, PARP3, PAX5, PBRM1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDK1, PIK3C2B, PIK3C2G, PIK3CA, PIK3CB, PIK3R1, PIM1, PMS2, POLD1, POLE, PPARG, PPP2R1A, PPP2R2A, PRDM1, PRKAR1A, PRKCI, PTCH1, PTEN, PTPN11, PTPRO, QKI, RAC1, RAD21, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RARA, RB1, RBM10, REL, RET, RICTOR, RNF43, ROS1, RPTOR, RSPO2, SDC4, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SGK1, SLC34A2, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SNCAIP, SOCS1, SOX2, SOX9, SPEN, SPOP, SRC, STAG2, STAT3, STK11, SUFU, SYK, TBX3, TEK, TERC, TERT, TET2, TGFB2, TIPARP, TMPRSS2, TNFAIP3, TNFRSF14, TP53, TSC1, TSC2, TYRO3, U2AF1, VEGFA, VHL, WHSC1, WHSC1L1, WT1, XPO1, XRCC2, ZNF217, ZNF703)	Tumor samples fixed (FFPE), DNA extracted from tumor cells	DNA extraction (digestion and extraction), library construction and hybrid capture (enrichment and PCR), sequencing-by-synthesis (Illumina HiSeq)

Annex to the Accreditation Certificate D-ML-21105-01-00

Analyte (measurement parameter)	Test material (matrix)	Test technique
<p>Somatic gene aberrations in ABI1, ABL1, ABL2, ACSL6, ACTB, AFF1, AFF4, AKT1, AKT2, AKT3, ALK, AMER1, APC, APH1A, AR, ARAF, ARFRP1, ARHGAP26, ARHGEF12, ARID1A, ARID2, ARNT, ASMTL, ASXL1, ATF1, ATG5, ATIC, ATM, ATR, ATRX, AURKA, AURKB, AXIN1, AXL, B2M, BAP1, BARD1, BCL10, BCL11A, BCL11B, BCL2, BCL2L2, BCL3, BCL6, BCL7A, BCL9, BCOR, BCORL1, BCR, BIRC3, BLM, BRAF, BRCA1, BRCA2, BRD4, BRIP1, BRSK1, BTG1, BTG2, BTK, BTLA, C11orf30, CAD, CALR, CAMTA1, CARD11, CARS, CBFA2T3, CBF3, CBL, CCND1, CCND2, CCND3, CCNE1, CCT6B, CD22, CD274, CD36, CD58, CD70, CD79A, CD79B, CDC73, CDH1, CDK12, CDK4, CDK6, CDK8, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CDX2, CEBPA, CHD2, CHEK1, CHEK2, CHIC2, CHN1, CIC, CIITA, CKS1B, CLP1, CLTC, CLTCL1, CNTRL, COL1A1, CPS1, CREB3L1, CREB3L2, CREBBP, CRKL, CRLF2, CSF1, CSF1R, CSF3R, CTCF, CTNNA1, CTNNA1, CUX1, CXCR4, DAXX, DDIT3, DDR2, DDX10, DDX3X, DDX6, DEK, DNM2, DNMT3A, DOT1L, DTX1, DUSP2, DUSP22, DUSP9, EBF1, ECT2L, EED, EGFR, EIF4A2, ELF4, ELL, ELN, ELP2, EML4, EP300, EPHA3, EPHA5, EPHA7, EPHB1, EPOR, EPS15, ERBB2, ERBB3, ERBB4, ERG, ESR1, ETS1, ETV1, ETV4, ETV5, ETV6, EWSR1, EXOSC6, EZH2, FAF1, FAM46C, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCL, FAS, FBXO11, FBXO31, FBXW7, FCGR2B, FCRL4, FEV, FGF10, FGF14, FGF19, FGF23, FGF3, FGF4, FGF6, FGFR1, FGFR1OP, FGFR2, FGFR3, FGFR4, FHIT, FLCN, FLI1, FLT1, FLT3, FLT4, FLYWCH1, FBNP1, FOXL2, FOXO1, FOXO3, FOXO4, FOXP1, FRS2, FSTL3, FUS, GADD45B, GAS7, GATA1, GATA2, GATA3, GID4, GLI1, GMPS, GNA11, GNA12, GNA13, GNAQ, GNAS, GPHN, GPR124, GRIN2A, GSK3B, GTSE1, HDAC1, HDAC4, HDAC7, HERPUD1, HEY1, HGF, HIP1, HIST1H1C, HIST1H1D, HIST1H1E, HIST1H2AC, HIST1H2AG, HIST1H2AL, HIST1H2AM, HIST1H2BC, HIST1H2BJ, HIST1H2BK, HIST1H2BO, HIST1H3B, HIST1H4I, HLF, HMGA1, HMGA2, HNF1A, HOXA11, HOXA13, HOXA3, HOXA9, HOXC11, HOXC13, HOXD11, HOXD13, HRAS, HSP90AA1, HSP90AB1, ICK, ID3, IDH1, IDH2, IGF1R, IGH, IGK, IGL, IKBKE, IKZF1, IKZF2, IKZF3, IL21R, IL3, IL7R, INHBA, INPP4B, INPP5D, IRF1, IRF4, IRF8, IRS2, ITK, JAK1, JAK2, JAK3, JARID2, JAZF1, JUN, KAT6A, KDM2B, KDM4C, KDM5A, KDM5C, KDM6A, KDR, KDSR, KEAP1, KIF5B, KIT, KLHL6, KMT2A, KMT2C, KMT2D, KRAS, LASP1, LCP1, LEF1, LMO1, LMO2, LPP, LRP1B, LRRK2, LYL1, MAF, MAFB, MAGED1, MALT1, MAP2K1, MAP2K2, MAP2K4, MAP3K1, MAP3K14, MAP3K6, MAP3K7, MAPK1, MCL1, MDM2, MDM4, MDS2, MECOM, MED12, MEF2B, MEF2C, MEN1, MET, MIB1, MITF, MKI67, MKL1, MLF1, MLH1, MLLT1, MLLT10, MLLT3, MLLT4, MLLT6, MN1, MNX1, MPL, MRE11A, MSH2, MSH3, MSH6, MSI2, MSN, MTOR, MUC1, MUTYH, MYB, MYC, MYCL, MYCN, MYD88, MYH11, MYH9, MYO18A, NACA, NBEAP1, NCOA2,</p>	<p>Extracted nucleic acids (DNA and RNA) from neoplastic cells isolated from peripheral blood, bone marrow aspirate and tumor samples fixed (FFPE)</p>	<p>DNA/RNA extraction (digestion and extraction), cDNA and library construction and hybrid capture (enrichment and PCR), sequencing-by-synthesis (Illumina HiSeq)</p>

Annex to the Accreditation Certificate D-ML-21105-01-00

Analyte (measurement parameter)	Test material (matrix)	Test technique
NCOR2, NCSTN, NDRG1, NF1, NF2, NFE2L2, NFKB2, NFKBIA, NIN, NKX2-1, NOD1, NOTCH1, NOTCH2, NPM1, NR4A3, NRAS, NSD1, NT5C2, NTRK1, NTRK2, NTRK3, NUMA1, NUP214, NUP93, NUP98, NUTM2A, OMD, P2RY8, PAFAH1B2, PAG1, PAK3, PALB2, PASK, PAX3, PAX5, PAX7, PBRM1, PBX1, PC, PCBP1, PCLO, PCM1, PCSK7, PDCD1, PDCD11, PDCD1LG2, PDE4DIP, PDGFB, PDGFRA, PDGFRB, PDK1, PER1, PHF1, PHF6, PICALM, PIK3CA, PIK3CG, PIK3R1, PIK3R2, PIM1, PLAG1, PLCG2, PML, POT1, POU2AF1, PPP1CB, PPP2R1A, PRDM1, PRDM16, PRKAR1A, PRKDC, PRRX1, PRSS8, PSIP1, PTCH1, PTEN, PTK7, PTPN11, PTPN2, PTPN6, PTPRO, RABEP1, RAD21, RAD50, RAD51, RAF1, RALGDS, RAP1GDS1, RARA, RASGEF1A, RB1, RBM15, RELN, RET, RHOA, RHOH, RICTOR, RNF213, RNF43, ROS1, RPL22, RPN1, RPTOR, RUNX1, RUNX1T1, RUNX2, S1PR2, SDHA, SDHB, SDHC, SDHD, SEC31A, SEPT5, SEPT6, SEPT9, SERP2, SET, SETBP1, SETD2, SF3B1, SGK1, SH3GL1, SLC1A2, SMAD2, SMAD4, SMARCA1, SMARCA4, SMARCB1, SMC1A, SMC3, SMO, SNX29, SOCS1, SOCS2, SOCS3, SOX10, SOX2, SPEN, SPOP, SRC, SRSF2, SRSF3, SS18, SSX1, SSX2, SSX4, STAG2, STAT3, STAT4, STAT5A, STAT5B, STAT6, STK11, STL, SUFU, SUZ12, SYK, TAF1, TAF15, TAL1, TAL2, TBL1XR1, TCF3, TCL1A, TEC, TET1, TET2, TFE3, TFG, TFPT, TFRC, TGFBR2, TLL2, TLX1, TLX3, TMEM30A, TMPRSS2, TMSB4XP8, TNFAIP3, TNFRSF11A, TNFRSF14, TNFRSF17, TOP1, TP53, TP63, TPM3, TPM4, TRAF2, TRAF3, TRAF5, TRG, TRIM24, TRIP11, TSC1, TSC2, TSHR, TTL, TUSC3, TYK2, U2AF1, U2AF2, USP6, VHL, WDR90, WHSC1, WHSC1L1, WISP3, WT1, XBP1, XPO1, YPEL5, YY1AP1, ZBTB16, ZMYM2, ZMYM3, ZNF217, ZNF24, ZNF384, ZNF521, ZNF703, ZRSR2		