The Appendix is an integral part of
Certificate of Accreditation No. 202/2022 of 26/04/2022

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

Medical laboratory locations:

1.	**Biopsy section – Section B**	Mikulášské nám. 628/4, 326 00 Plzeň Mikulášské nám. 589/5, 326 00 Plzeň Rejskova 614/8, 326 00 Plzeň Rejskova 855/10, 326 00 Plzeň
2.	**Cytology section – Section C**	Mikulášské nám. 392/7, 326 00 Plzeň Barrandova 388/4, 326 00 Plzeň
3.	**Working site Jičín**	Oblastní nemocnice Jičín a.s., Bolzanova 512, 506 43 Jičín
4.	**Working site Jilemnice**	Masarykova městská nemocnice a.s., Hospital Jilemnice, Metyšova 465, 514 15 Jilemnice
5.	**Molecular-genetics section – Section G**	Rejskova 855/10, 326 00 Plzeň
6.	**Working site Strakonice**	Nemocnice Strakonice, a.s. Radomyšlská 336, 386 01 Strakonice

1. **Biopsy Section – Section B**

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex. Updated list of activities provided within the flexible scope of accreditation is available at www.biopticka.cz.

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
	823 – Pathology Laboratory		
1.	Histological examination of tissues	SOP-01	Tissues
2.	Histological examination of hard tissues	SOP-02	Hard tissues
3.	Examination of body liquids by cytology and minibiopsy method	SOP-03	Body liquids (exudate, urine) and nongynecologic smears
4.	Immunohistochemical examination of antigens*	SOP-05	Tissues, hard tissues, cells

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Mikulášské nám. 628/4, 326 00 Plzeň

Annex:
Flexible scope of accreditation

Examination procedure ordinal numbers:
4

The Laboratory is al owed to modify the examination procedures listed in the Annex within the specified scope of accreditation provided the measuring principle is observed.

The flexible approach to the scope of accreditation cannot be applied to the examinations not included in the Annex.

*** List of antibodies for examination of antigens, method according to SOP-05**

FIRM NAME clone	NONPROPRIETARY NAME
Actin, (Muscle)	Actin E
Smooth Muscle Actin	Actin S
Anti-Human Cytokeratin	AE_{1-3}
α-1-Fetoprotein (AFP)	AFP
Anti- ALK 1, CONFIRM	ALK-1
Anti-Human P 504S	AMACR
Androgen Receptor	AR
BCL2 Oncoprotein	Bcl 2
BCL6 Protein	Bcl 6
Epithelial Antigen	Ber-EP4
Beta-catenin	Beta-catenin
Anti-Human Kappa Light Chains	BJK
Anti-Human Lambda Light Chains	BJL
B Cell Specific Octamer Binding Protein (BOB-1)	BOB-1
C4d	C4d
Calcitonin	Calcitonin

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Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Caldesmon	Caldesmon
Calponin	Calponin
Calretinin, CONFIRM	Calretinin
Anti-Cytokeratin CAM 5,2	CAM 5,2
CD 1a	CD 1 a
CD 10	CD 10
CD 105, Endoglin	CD 105
CD 117, c-kit	CD 117
CD 13	CD 13
CD 138	CD 138
CD14	CD 14
CD 15, CONFIRM	CD 15
CD 16	CD 16
CD 163	CD 163
CD 2	CD 2
CD20, CONFIRM	CD 20 (L26)
CD 21	CD 21
Anti-Human CD 23	CD 23
CD 25	CD 25
CD 3	CD 3
CD 30	CD 30
Endothelial Cell	CD 31
CD 33	CD 33
Endothelial Cell Marker	CD 34

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Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Purified Mouse Anti-Human CD34	CD 34 My10
CD 35	CD 35
CD 4, CONFIRM	CD 4
CD 42b (GPIb)	CD 42b
CD 43	CD 43
CD 5	CD 5
CD 56(NCAM)	CD 56
CD 57	CD 57
CD 61	CD 61
CD 68	CD 68
CD 7	CD 7
CD 79a	CD 79a
CD 8	CD 8
CD 99, CONFIRM	CD 99
CDX2	CD X2
Carcinoembryonic Antigen (CEA)	CEA
c-erbB Oncoprotein (internal domain)	CERB
Cytokeratin 10/13	CK 10/13
Cytokeratin 14	CK 14
Cytokeratin 17	CK 17
Cytokeratin 18	CK 18
Cytokeratin 19	CK 19
Cytokeratin 20	CK 20
Cytokeratin 5	CK 5

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Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Cytokeratin 5/6	CK 5/6
Cytokeratin 7	CK 7
Cytokeratin (35betaH11)	CK 8
Cytokeratin	CK MNF 116
Cytomegalovirus	CMV
Follicular Dendritic Cell	CNA.42
COX-2	COX-2
Cyclin A	Cyclin A
Anti-Human Cyclin D1	Cyclin D1
Cyclin D1/bcl1	Cyclin D1poly
Monoclonal Mouse Anti-Human Podoplanin	D2-40
Desmin	Desmin
Dog – 1	Dog-1
Epstein-Barr Virus, LMP	EBV
E-cadherin	E-CAD
Epidermal Growth Factor Receptor (EGFR)	EGFR
Epithelial Membrane Antigen (EMA)	EMA
Estrogen Receptor (ER), CONFIRM	ER
Factor VIII Related Antigen	Factor VIII
Factor XIIIa	Factor XIII
Galectin 3	Galect 3
Gastrin	Gastrin
GCDFP-15	GCDFP 15
Glial Fibrillary Acidic Protein	GFAP

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Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Glycophorin A	Glycophor A
Human Chorionic Gonadotropin	HCG
Leukaemia, Hairy Cell	HCL
HER-2/neu	HER-2
HercepTest™	HERCEP
HHV 8 (Human Herpes Virus Type 8)	HHV 8
Melanosome	HMB 45
Human Placental Lactogel (hPL)	hPL
HSA (Hepatocyte Specific Antigen)	Hep Par1 (HSA)
Chromogranin A	Chromog
IgA (Immunoglobulin A)	Ig A
IgD (Immunoglobulin D)	Ig D
IgG (Immunoglobulin G)	Ig G
IgM (Immunoglobulin M)	Ig M
mouse anti-human IgG 4	IgG 4
Inhibin	Inhibin
Anti-Insulin	Insulin
Cytokeratin HMW	K 903
Anti- LCT	Lactaza
Laminin	Laminin
Lin28	LIN 28
Lysozyme	Lysozyme
Mast Cell Tryptase	MAST
MCM3 Protein	MCM 3

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Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Melan-A	Melan A
Mammaglobin	MGA
Anti-Mitochondrial Antigen	MIA
Ki-67	MIB (Ki-67)
MITF (Microphthalmia Transcription Factor)	MITF
MLH 1	MLH 1
Myeloperoxidase	MPOX
MSH 2	MSH 2
MSH 6	MSH 6
MUC 2	MUC 2
MUC 5 AC	MUC 5 AC
MUC 6	MUC 6
MyoD1	Myo D1
Myogenin	Myogen
Myosin, Smooth Muscle	Myosin
Nanog	Nanog
Neurofilament 200 kD	NF-200
Neurofilament	NF-2F11
Anti-Melanoma Associated Antigen	NKI/C3
nm23 Protein	nm 23
c-erbB Oncoprotein (external domain)	NOVO
Neuron Specific Enolase	* NSE
OCT ¾	OCT ¾
Oct-2	Oct-2

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Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Cytokeratin OSCAR	OSCAR
p16 – Protein	* p 16
p21WAF1	p 21
p 27	p 27
p53 Protein	p 53
p63 Protein	p 63
PSAP (Prostatic Acid Phosphatase)	PAPh
Parvalbumin (Alpha)	Parvalbumin
PAX 5, CONFIRM	PAX 5
PAX 8	PAX 8
PD-1 (NAT105) Mouse Monoclonal Antibody	PD-1
Perforin	Perforin
Peripherin	Peripherin
CD 68	PG-M1
Anti-PLAG1	PLAG-1
Placental Alkaline Phosphatase (PLAP)	PLAP
PMS2	PMS 2
Progesterone Receptor	PR
Prostate Specific Antigen (PSA)	PSA
S 100	S 100
SALL 4	SALL 4
Anti-SDHB	SDHB
Serotonin	Serotonin
Anti-SOX 11	SOX 11

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Certificate of Accreditation No. 202/2022 of 26/04/2022

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Anti-STAT5a antibody	Stat 5
Synaptophysin	Synap
CD45, Leucocyte Common Antigen	CD45 (LCA)
TdT Terminal Deoxynucleotidyl Transferase	TdT
TFE 3	TFE 3
Thyroglobulin	TG mono
Thyroglobulin	TG poly
Thyroid Peroxidase (TPO)	TPO
TRAcP (Tartrate-Resistant Acid Phosphatase)	TRAcP
anti-Thyroid Transcription Factor (TTF-1)	TTF_1
anti-Thyroid Transcription Factor (TTF-1)	TTF_1 SPT24
Tyrosinase, CONFIRM	Tyros
CD45RO	UCHL1 (CD45RO)
Vimentin	Vimentin
Wilms' Tumor 1 (WT 1) Protein	WT 1
BG-8	BG-8
anti-ERG	ERG
anti-Glypican 3	Glypican 3
Napsin A	Napsin A
PIN-Cocktail (P5045 + p63)	PIN c
CD 123	CD 123
Anti-Human Cytokeratin 10	CK 10
GATA-3	GATA 3
Anti – glutamine synthetase	Glutamin synth.

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Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
anti-INI-1	SMARCB1 (INI-1)
Mesothelin	Mesothelin
anti-p120 catenin	p 120
p40 (P)	p 40
Anti – ATRX antibody	ATRX
Anti-Clusterin α chain (human)	Clusterin
Anti-Mucin monoclonal antibody M-GGMC-1	HIK 1083
Anti – Bcl-2 antibody	Bcl2 E17
cd k4 Monoclonal Antibody, Mouse	cdk4
PRAME Antibody NBP1-85418	PRAME
Anti-Human IMP3	IMP3
Anti-Human LMO2 Monoclonal Antibody	LMO2
VEGF Receptor 2 (55B11) Rabbit mAb	VEGFR-2
NUT (C52B1) Rabbit mAb	NUT
NKX3.1	NKX3.1
Prostein (Synonyms of P501S antigen)	Prostein
anti-BRAF V600E Mouse Monoclonal Primary Antibody	BRAF
Langerin Mouse Monoclonal Antibody	Langerin
Anti-SOX 9 antibody	SOX 9
Brachyury, RMab	Brachyury
Claudin 1	Claudin 1
MUM 1 protein	MUM 1
Anti – TIA-1	TiA
Anti – Arginase-1	Arginase-1

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The Appendix is an integral part of
Certificate of Accreditation No. 202/2022 of 26/04/2022

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Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Anti – Hemoglobin A	Hemoglobin
Anti – Pancreatic Amylase	Pancreatic Amylase
Anti – Pancreatic Lipase	Pancreatic Lipase
Mouse Monoclonal Antibody Parathyroid Hormone	PTH
α-1-Antitrypsin (AAT)	AAT
Fli-1	Fli 1
GLUT-1	GLUT 1
PDGFR alpha	PDGFR alpha
SOX-10	SOX 10
Adrenocorticotropin (ACTH)	ACTH
Mouse anti-Claudin-5	Claudin-5 mono
Anti-Claudin 5	Claudin-5 poly
Anti - c- Myc antibody	c-Myc
E-Cadherin (RM)	E-Cad EP6
Granzym B	Granzym B
Anti – Histone H3 antibody	* Histone H3
MDM2	MDM2
BAP1 (C-4) monoclonal antibody	BAP 1
CD 11c	CD 11c
Anti-Human CD15	CD 15-Carb3
CD 56 Rabbit Monoclonal Antibody	CD 56 MRQ-42
Anti - C Reactive Protein	CRP
Anti – HNF1B antibody produced in rabbit	HNF 1
Anti-Islet 1 antibody [1H9]	Islet 1

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Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Anti – NKX6-1 antibody	NKX 6-1
Ani- LEF1 antibody	LEF 1
Anti-LYVE1 antibody - Lymphatic Vessel Marker	LYVE 1
MCPyV large T-antigen Antibody	Merkel Cell
Nerve Growth Factor Receptor (NGFR)	NGFR
Olig2 Antibody	Olig
Anti-Smoothelin	Smoothelin
TLE1 (M-101) monoclonal antibody	TLE 1
TrkA (12G8) Rabbit mAb	TrkA
Collagen Type IV	Collagen IV
anti-MUC1 Mouse Monoclonal Primary Antibody	MUC 1
Cytochrome P450 Aromatase Antibody	p450 Aromatase
Phosphohistone H3 (PHH3)	phosphohH3
SATB2 (EP281) Rabbit Monoclonal Primary Antibody	SATB 2 mono
Anti - SATB2 antibody	* SATB 2 poly
Anti-STAT6 antibody	Stat 6 mono
Stat6 (S-20)	Stat 6 poly
Anti-serum amyloid A (AA)	Amyloid A
ERG	ERG m.tissues
Anti-v-Myb + c-Myb antibody	MYB
Phospho-S6 Ribosomal Protein (Ser235/236)	Phospho-S6
Prospero Homeobox 1 (PROX1) (C-Term) antibody	PROX 1
Anti – SDHA antibody	SDHA
Anti-Somatostatin Receptor 2 antibody	SomRec2Prot

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-7-

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Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Annexin A10	Annexin A10
Anti FABP1	FABP
Anti - Hsp70, (Heath shock protein)	Hsp 70
Anti – Human IDH1 R132H	IDH 1
ROS1 (D4D6®) Rabbit mAb	ROS 1
SOX-2	SOX 2
Purified anti-human VEGFR-3 (FLT-4)	VEGFR-3
Anti-Human C3c Complement/FITC	FITC C3
Anti-Human Fibrinogen/FITC	FITC Fibrin
Anti-Human IgA/FITC	FITC IgA
Anti-Human IgG/FITC	FITC IgG
Anti-Human IgM/FITC	FITC IgM
Anti-Hydrogen Potassium ATPase Beta antibody	HK ATP
MIST1 (6E8)	MIST 1
Anti-Pepsinogen I antibody	Pepsinogen
Anti-RUNX3 antibody	RUNX 3
Anti-FSH	FSH
Anti-GH – Growth Hormon	GH
Anti-LH	LH
Anti-Prolactin	Prolactin
Anti-TSH	TSH
Anti-CA6 antibody produced in rabbit	CA6
CAMTA1 antibody	CAMTA1
Anti-CCNB3 antibody produced in rabbit	CCNB3

Český institut pro akreditaci, o.p.s.

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Anti-CD 64 antibody	CD 64
Anti-DMRT1 antibody	DMRT1
Anti-FGF-23 (human)	FGF-23
Anti-Neuronal Nuclei (NeuN)	Neu N
Anti-p 16 rabbitmonoclonal antibody	p 16 R15-A
Anti-Human Plasma Cell	Plasma Cell
Stathmin (D1Y5A) Rabbit mAb	Stathmin
Fascin	Fascin
FosB (5G4) Rabbit mAb	FosB
Tri-Methyl-Histone H3 (Lys27) Rabbit mAb	H3K27MPNST
HMGA2 (D1A7) Rabbit mAb	HMGA 2
Nkx2.2 transcription factor	NKX 2.2
PD-L1 (E1L3N®) XP® Rabbit mAb	PD-L1
PD-L2 (D7U8C) XP® Rabbit mAb	PD-L2
Anti-Human PTEN	PTEN
Skp2 p45 (H-435)	Skp2 p45
BCoR antibody (c 10)	BCoR mono
Anti-BCOR antibody produced in rabbit	BCOR poly
CD 71	CD 71
Ezh2 (D2C9) XP® Rabbit mAb	Ezh2
Anti-Histone H3.3 G34W	H3F3A
INSM 1 (A-8)	INSM 1
Ant – Histone H3 Antibody, K27M mutant	K27M
Anti-Epithelial Related Antigen (MOC-31)	MOC-31

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
Pit-1 (D-7) monoclonal antibody	Pit-1
Anti-BRG1 Antibody	SMARCA 4 (BRG1)
Anti-Trypsin Antibody	Trypsin
ICOS Monoclonal Antibody	ICOS
CXCL13 Polyclonal Antibody	CXCL13
Telomerase (hEst2/TERT) Antibodies	Est2
MYF-5 Antibody	MYF-5
Uroplakin II Monoclonal Antibody	Uroplakin II
Mucin 4 (1G8)	MUC 4
Anti-PHOX2B antibody - C-terminal	PHOX2B
Myoglobin	Myoglobin
Anti- HMGA1 antibody	HMGA 1
Nestin (10c2) monoclonal antibody	Nestin
PRDM10	PRDM 10
Anti – PRKD1 antibody	PRKD 1
ALK (D5F3®) XP® Rabbit mAb	ALK D5F3
Monoclonal Mouse Anti-Human PD-L1	PD-L1 22C3
VENTANA PD-L1 (SP142) Assay	PD-L1 SP142
Purified Mouse Anti- PKA [RI]	PKAR1a
Claudin 4 Monoclonal Antibody	Claudin 4
PAX 7 antibody	PAX 7
Anti-Histone H3 (di methyl K27) antibody - ChIP Grade	H3K27dimethyl
NOR-1 Antibody	NR4A3 (NOR-1)
Ant -Steroidogenic Factor 1/SF-1 antibody	SF EPR19744

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Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

FIRM NAME clone	NONPROPRIETARY NAME
FOXL2 Antibody	FOXL2
SS18-SSX (E9X9V) XP® Rabbit mAb	SS18-SSX
SSX (E5A2C) Rabbit mAb (Carboxy-terminal Antigen)	SSX
T-Box 19 antibody	TPIT
Anti-ARID1 A antibody	ARID1 A
MTAP monoclonal antibody (M01)	MTAP
Anti-PAN Trk antibody	pan Trk
Anti-CLDN 18 rabbit antibody	Claudin-18
SARS-CoV-2	SARS2 BioSB
SARS-CoV-2/ SARS-CoV-2 spike antibody	SARS2 GeneTex
Anti-c-Fos antibody	c-Fos
Anti-DDIT3 antibody	DDIT 3
fumarate hydratase (J-13)	fumarate
Anti-HLA Class 1 ABC antibody	HLA-1
Anti-SNARCA2 antibody	SMARCA 2 (BRM)
Anti-Nurr1 antibody	Nurr1 (NR4A2)

2. Cytology section – Section C

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
817 - Clinical Cytology Laboratory			
1.	Examination of gynecologic cytology	SOP-06	Gynecologic cytologic smears
2.	Examination of gynecologic cytology in thin layer (LBC) by Thin Prep PAP Test method	SOP-17	Gynecologic cytologic preparation

Český institut pro akreditaci, o.p.s.

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

3. **Working site Jičín**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
823 – Pathology Laboratory			
1.	Peroperational histological examination of tissues	SOP-04	Tissues

4. **Working site Jilemnice**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
823 – Pathology Laboratory			
1.	Peroperational histological examination of tissues	SOP-04	Tissues

Český institut pro akreditaci, o.p.s.

Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

5. Molecular genetics section – Section G

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex. Updated list of activities provided within the flexible scope of accreditation is available at www.biopticka.cz.

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
	802 - Medical microbiology		
1.	Detection of microorganisms and viruses by PCR [1)]	SOP-18	Stabilized and non-stabilized cellular materials
2.	Detection of microorganisms and viruses by real-time PCR [2)]	SOP-19	Stabilized and non-stabilized cellular materials
3.	Reserved		
	816 - Medical Genetics Laboratory		
1.	Fluorescent in-situ hybridization (FISH) on deparaffinized sections[3)]	SOP-07	Fixed tissue sections
2.	Analysis of somatic and germline gene alterations by direct sequencing[5)]	SOP-09	Stabilized and non-stabilized cellular materials
3.	Reserved		
4.	Reserved		
5.	Analysis of clonality of receptor genes of B and T lymphocytes by fragmentation analysis method [6)]	SOP-14	Stabilized and non-stabilized cellular materials
6.	Reserved		
7.	Reserved		
8.	Detection of mutations, fusions and changes in the number of genes by massive parallel sequencing [9)]	SOP-22	Stabilized and non-stabilized cellular materials
9.	Detection of gene alterations without significant transgenerational effect by real-time PCR [10)]	SOP-23	Stabilized and non-stabilized cellular materials

Český institut pro akreditaci, o.p.s.
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Accredited entity according to ČSN EN ISO 15189:2013:

Bioptická laboratoř s.r.o.
Mikulášské nám. 628/4, 326 00 Plzeň

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
10.	Non-invasive prenatal test (NIPT) of chromosomes 13, 18, 21, X and Y with the use of SNP analysis by targeted sequencing method using massive parallel sequencing	SOP-24	Non-stabilized cellular materials
817 - Clinical Cytology Laboratory			
1.	Detection of HR-HPV by hybrid capture 2	SOP-08	Stabilized smears from mucous membranes
2.	Detection of HR-HPV and *Chlamydia trachomatis* by TMA/ Aptima method	SOP-21	Stabilized smears from mucous membranes

Annex:
Flexible scope of accreditation

Examination procedure ordinal numbers:
802: 1 - 2; 816: 1 - 2, 5, 8 - 9

The Laboratory is allowed to modify the examination procedures listed in the Annex within the specified scope of accreditation provided the measuring principle is observed.

The flexible approach to the scope of accreditation cannot be applied to the examinations not included in the Annex.

Examined microorganisms and viruses:

1) *Bartonella spp., Borrelia burgdorferi, Brucella spp., Francisella tularensis, Mycobacterium spp., Mycobacterium tuberculosis* complex, *Tropheryma whipplei, Yersinia pseudotuberculosis*, JCV, BKV, HSV1, HSV2, EBV, HHV6, HHV8, HPV (including partial genotyping 16,18,45)

2) *Francisella tularensis, Treponema pallidum, Mycobacterium spp., Haemophilus ducreyi, Chlamydia trachomatis, Neisseria gonorrheae, Trichomonas vaginalis, Ureaplasma urealiticum, Ureaplasma parvum, Mycoplasma genitalium, Mycoplasma hominis*, Adenovirus, ParvovirusB19, BKV, JCV, CMV, HSV1, HSV2, HHV6, VZV, EBV, HPV, HR HPV Alinity (Screening HR HPV including partial genotyping: HR HPV type 16,18,45 individually, HR HPV vaccination types together (31,33,52,58), other HR HPV types together (35,39,51,56,59,66,68), STI-2 (combination of *Neisseria gonorrhoeae/Chlamydia trachomatis)*, STI-4 *(combination of Neisseria gonorrhoeae/Chlamydia trachomatis/Mycoplasma genitalium/Trichomonas vaginalis)*

FISH probes used:

3) FISH probes used - *HER2/CEP 17, HER2/D17S122, ALK* break apart, *ROS1* break apart, *IGH-BCL2* fusion, *BCL2* break apart, *IGH* break apart, *IGH-MYC* fusion, *MYC* break apart, 1p36/1q25, 19q13/19p13

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- 7 -

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[4] Reserved

Examined genes:

[5] *APC, ATP7B, BRCA1, BRCA2, CDKN2A, CDK4, C-KIT, GNAS, HFE, IDH1, IDH2, MLH1, MSH2, MSH6, PDGFRA, VHL*

[6] *IgH, IgK, IgL, TCR β, TCR δ, TCR γ*

[7], [8] Reserved

[9] *ABL1, ABL2, ACVR1, ACVR1B, AKT1, AKT2, AKT3, ALK, ALOX12B, ANKRD11, ANKRD26. APC, AR, ARAF, ARFRP1, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKB, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BBC3, BCL10, BCL2, BCL2L1, BCL2L11, BCL2L2, BCL6, BCOR, BCORL1, BCR, BIRC3, BLM, BMPR1A, BRAF, BRCA1, BRCA2, BRD4, BRIP1, BTG1, BTK, C11orf30, CALCA, CALR, CARD11, CASP8, CBFB, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD276, CD74, CD79A, CD79B, CDC73, CDH1, CDK12, CDK4, CDK6, CDK8, CDKN1A, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CEBPA, CENPA, CIC, CREBBP, CRKL, CRLF2, CSF1R, CSF3R, CSNK1A1, CTCF, CTLA4, CTNNA1, CTNNB1, CUL3, CUX1, CXCR4, CYLD, DAXX, DCUN1D1, DDR2, DDX41, DHX15, DICER1, DIS3, DNAJB1, DNMT1, DNMT3A, DNMT3B, DOT1L, E2F3, EED, EGFL7, EGFR, EIF1AX, EIF4A2, EIF4E, EML4, EP300, EPCAM, EPHA3, EPHA5, EPHA7, EPHB1, ERBB2, ERBB3, ERBB4, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ERRFI1, ESR1, ETS1, ETV1, ETV4, ETV5, ETV6, EWSR1, EZH2, FAM123B, FAM175A, FAM46C, FANCA, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FAS, FAT1, FBXW7, FGF1, FGF10, FGF14, FGF19, FGF2, FGF23, FGF3, FGF4, FGF5, FGF6, FGF7, FGF8, FGF9, FGFR1, FGFR2, FGFR3, FGFR4, FH, FLCN, FLI1, FLT1, FLT3, FLT4, FOXA1, FOXL2, FOXO1, FOXP1, FRS2, FUBP1, FYN, GABRA6, GATA1, GATA2, GATA3, GATA4, GATA6, GEN1, GID4, GLI1, GNA11, GNA13, GNAQ, GNAS, GPR124, GPS2, GREM1, GRIN2A, GRM3, GSK3B, H3F3A, H3F3B, H3F3C, HGF, HIST1H1C, HIST1H2BD, HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J, HIST2H3A, HIST2H3C, HIST2H3D, HIST3H3, HLA-A, HLA-B, HLA-C, HNF1A, HNRNPK, HOXB13, HRAS, HSD3B1, HSP90AA1, CHD2, CHD4, CHEK1, CHEK2, ICOSLG, ID3, IDH1, IDH2, IFNGR1, IGF1, IGF1R, IGF2, IKBKE, IKZF1, IL10, IL7R, INHA, INHBA, INPP4A, INPP4B, INSR, IRF2, IRF4, IRS1, IRS2, JAK1, JAK2, JAK3, JUN, KAT6A, KDM5A, KDM5C, KDM6A, KDR, KEAP1, KEL, KIF5B, KIT, KLF4, KLHL6, KMT2A, KMT2B, KMT2C, KMT2D, KRAS, KRT20, KRT7, LAMP1, LATS1, LATS2, LMO1, LRP1B, LYN, LZTR1, MAGI2, MALT1, MAP2K1, MAP2K2, MAP2K4, MAP3K1, MAP3K13, MAP3K14, MAP3K4, MAPK1, MAPK3, MAX, MCL1, MDC1, MDM2, MDM4, MED12, MEF2B, MEN1, MET, MGA, MITF, MLH1, MLL, MLLT3, MPL, MRE11A, MSH2, MSH3, MSH6, MST1, MST1R, MTOR, MUTYH, MYB, MYC, MYCL1, MYCN, MYD88, MYOD1, NAB2, NBN, NCOA3, NCOR1, NEGR1, NF1, NF2, NFE2L2, NFKBIA, NKX2-1, NKX3-1, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NPM1, NRAS, NRG1, NSD1, NTRK1, NTRK2, NTRK3, NUP93, NUTM1, PAK1, PAK3, PAK7, PALB2, PARK2, PARP1, PAX3, PAX5, PAX7, PAX8, PBRM1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDK1, PDPK1, PGR, PHF6,*

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PHOX2B, PIK3C2B, PIK3C2G, PIK3C3, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PIM1, PLCG2, PLK2, PMAIP1, PMS1, PMS2, PNRC1, POLD1, POLE, PPARG, PPM1D, PPP2R1A, PPP2R2A, PPP6C, PRDM1, PREX2, PRKAR1A, PRKCI, PRKDC, PRSS8, PTEN, PTH, PTCH1, PTPN11, PTPRD, PTPRS, PTPRT, QKI, RAB35, RAC1, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RANBP2, RARA, RASA1, RB1, RBM10, RECQL4, REL, RET, RFWD2, RHEB, RHOA, RICTOR, RIT1, RNF43, ROS1, RPS6KA4, RPS6KB1, RPS6KB2, RPTOR, RUNX1, RUNX1T1, RYBP, SDHA, SDHAF2, SDHB, SDHC, SDHD, SETBP1, SETD2, SF3B1, SH2B3, SH2D1A, SHQ1, SLC5A5, SLIT2, SLX4, SMAD2, SMAD3, SMAD4, SMARCA4, SMARCB1, SMARCD1, SMC1A, SMC3, SMO, SNCAIP, SOCS1, SOX10, SOX17, SOX2, SOX9, SPEN, SPOP, SPTA1, SRC, SRSF2, STAG1, STAG2, STAT3, STAT4, STAT5A, STAT5B, STK11, STK40, SUFU, SUZ12, SYK, TAF1, TBX3, TCEB1, TCF3, TCF7L2, TERC, TERT, TET1, TET2, TFE3, TFRC, TGFBR1, TGFBR2, THADA, TMEM127, TMPRSS2, TNFAIP3, TNFRSF14, TOP1, TOP2A, TP53, TP63, TRAF2, TRAF7, TSC1, TSC2, TSHR, TTF1, U2AF1, VEGFA, VHL, VTCN1, WISP3, WT1, XIAP, XPO1, XRCC2, YAP1, YES1, ZBTB2, ZBTB7A, ZFHX3, ZNF217, ZNF703, ZRSR2.

[10)] *F2, F5, HLA-DQ2/DQ8/DRB, F13, MTHFR, PAI-1, BRAF, EGFR, KRAS, NRAS*

Explanatory notes:
HR-HPV – *High risk human papillomavirus* (high-risk human papillomavirus, human papillomavirus with a high oncogenic potential)
HPV – *Human papillomavirus*
HNPCC – Hereditary non-polyposis colorectal carcinoma
MLPA – *Multiplex ligation-dependent probe amplification*
PCR – *Polymerase chain reaction*
RT-PCR – *Reverse transcription polymerase chain reaction*
SNP – *Single Nucleotide Polymorphisms*
NGS – *Next Generation Sequencing*

6. **Working site Strakonice**

Examinations:

Ordinal number	Examination procedure name	Examination procedure identification	Examined object
823 – Pathology Laboratory			
1.	Peroperational histological examination of tissues	SOP-04	Tissues