Accredited Body: Centrum kardiovaskulární a transplantační chirurgie Brno

CAB Name: Genetics Laboratory

CAB Number: 8257

Certificate of Accreditation No.: 66/2025

Field of Accreditation: Medical Laboratory - ČSN EN ISO 15189 ed. 3:2023

Updated: 14. 2. 2025

Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom ¹	
	802 – Medical Microbiology					
1.	Detection of nucleic acids of infectious agents	Real-Time PCR	SOPA-GL-01, version 06; SOPP-GL-18, version 07; SOPP-GL-54, version 03; SOPP-GL-56, version 05; SOPP-GL-58, version 07; SOPP-GL-59, version 07; SOPP-GL-60, version 07; GeneXpert II	Plasma, blood, bone marrow, cerebrospinal fluid, urine	A, B, C, D	

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom ¹	
		816 – Medica	l Genetics Laboratory			
1.	Examination of germline genome variants	U	SOPA-GL-02, version 05;	Blood, bone marrow, paraffin block, smear from buccal mucosa	A, B, C, D	
			SOPP-GL-01, version 05;			
			SOPP-GL-02, version 06;			
			SOPP-GL-03, version 05;			
			SOPP-GL-04, version 05;			
			SOPP-GL-05, version 05;			
			SOPP-GL-06, version 05;			
			SOPP-GL-28, version 06;			
			SOPP-GL-32, version 04;			
			SOPP-GL-33, version 04;			
			SOPP-GL-36, version 05;			
			SOPP-GL-37, version 05;			
			SOPP-GL-39, version 05; SOPP-GL-41, version 05;			
			SOPP-GL-43, version 05;			
			SOPP-GL-44, version 05;			
			SOPP-GL-49, version 05;			
			SOPP-GL-49, version 05;			
			SOPP-GL-57, version 03;			
			SOPP-GL-61, version 04;			
			ABI 3130			
		1516				
2.	Examination of apolipoprotein B-100	ARMS;	SOPA-GL-03, version 05;	Blood	A, B, D	
		ACRS	ACRS	SOPP-GL-03, version 05;		
			SOPP-GL-04, version 05;			
			SOPP-GL-28, version 06;			
			SOPP-GL-29, version 05;			
			SOPP-GL-30, version 05			
3.	Examination of apolipoprotein E		SOPA-GL-04, version 05;	Blood	A, B, D	
			SOPP-GL-03, version 05;			
			SOPP-GL-04, version 05;			
			SOPP-GL-28, version 06;			

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom ¹
			SOPP-GL-31, version 05		
4.	Examination of germline genome variants	Real-Time PCR	SOPA-GL-05, version 05; SOPP-GL-49, version 05; SOPP-GL-53, version 04; SOPP-GL-56, version 05	Blood, smear from buccal mucosa	A, B, C, D
5.	Examination of germline genome variants	NGS-MPS	SOPA-GL-06, version 06; SOPP-GL-28, version 06; SOPP-GL-33, version 04; SOPP-GL-49, version 05; SOPP-GL-56, version 05; SOPP-GL-61, version 04; SOPP-GL-65, version 02; SOPP-GL-66, version 04; SOPP-GL-67, version 06; SOPP-GL-68, version 05; SOPP-GL-69, version 06; SOPP-GL-70, version 05; NextSeq (Illumina); MiSeq (Illumina);	Blood, bone marrow, paraffin block, smear from buccal mucosa	A, B, C, D

Specification of the scope of accreditation:

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
802/1	DNA HBV (Hepatitis B virus); DNA CMV (Cytomegalovirus); DNA EBV (Epstein-Barr virus); DNA BKV (BK virus); RNA HCV (Hepatitis C virus)
816/1	X-linked hyper IgM syndrome (X-HIGM; <i>CD40LG</i>) X-linked severe combined immunodeficiency (X-SCID; <i>IL2RG</i>) X-linked agammaglobulinemia (XLA; BTK) AR - severe combined immunodeficiency (AR-SCID; <i>RAG1</i> , <i>RAG2</i>)
	Omenn's syndrome (OMENN; RAG1, RAG2)

	Wishest Addish sundama (WAC, WAC)		
	Wiskott-Aldrich syndrome (WAS; WAS)		
	Chronic granulomatous disease (CGD; CYBB)		
	X-linked lymphoproliferative syndrome (XLP; SH2D1A, XIAP)		
	Autoimmune lymphoproliferative syndrome type V (ALPS V; CTLA4)		
	Dysbetalipoproteinaemia (HLP III; APOE)		
816/2	Variant p.Arg3527Gln		
816/3	Alleles E2, E3, E4		
816/4	Factor V (G1691A-Leiden);		
	Prothrombin (G20210A)]		
816/5	Panel IEI: ADA, AICDA, AIRE, AK2, AP3B1, ATM, BLM, BTK, CASP8, CASP10, CD19, CD27, CD8A, CD3D, CD3E, CD3G, CD40, CD59, CD247, CD40LG, CECR1, CIITA, CR2, CYBA, CYBB, DCLRE1C, DKC1, DNMT3B, DOCK8, ELANE, FERMT3, FOXP3, G6PC3, GATA2, HAX1, IFNGR1, IFNGR2, IGHM, IGLL1, IL12RB1, IL2RA, IL2RG, IL7R, ITGB2, ITK, JAK3, LCK, LIG1, LIG4, LYST, MASP2, MEFV, MVK, NBN, NBS1, NCF2, NFKB1, NFKB2, NFKBIA, NHEJ1, NLRP3, NOD2, ORAI1, PIK3CD, PIK3R1, PLG, PNP, PRF1, PRKDC, PTPRC, RAB27A, RAG1, RAG2, RFX5, RFXANK, RFXAP, RMRP, SBDS, SERPING1, SH2D1A, SLC37A4, SMARCAL1, STAT1, STAT3, STIM1, TAP1, TAP2, TAPBP, TBX1, TNFRSF13B, TNFRSF1A, TNFSF5, TREX1, TYK2, WAS, XIAP, ZAP70		
	Panel FH: ABCG5, ABCG8, APOB, APOE, LDLR, LDLRAP1, LIPA, PCSK9		

Explanatory notes:

- Established degrees of freedom according to MPA 00-09-..:
 - A Flexibility concerning the documented examination/ sample collection procedure
 - B Flexibility concerning the technique
 - C Flexibility concerning the analytes / parameters
 - D Flexibility concerning the examined material

If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for this examination.

ARMS Amplification Refractory Mutation System ACRS Amplification Created Restriction Site

FH Familial hypercholesterolemia IEI Inborn errors of immunity

NGS-MPS Next Generation Sequencing – Massively Parallel Sequencing

PCR Polymerase Chain Reaction

Real-Time PCR Polymerase Chain Reaction in real time