HELLENIC ACCREDITATION SYSTEM

Annex G1/10 to the Certificate No. **1106**-4

SCOPE of ACCREDITATION

of the

Clinical Laboratory

of

PERSEUS

ANONYMOS ETAIRIA EKMETALLEUSIS KAI LEITOURGIAS FOREON YGEIONOMIKIS MERIMNAS

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Hematological testing		
1. Whole blood (EDTA)	**Determination of 8 parameters**	**Automatic Hematological Analyzers Advia 2120i (S/N IR17271948) (1) Siemens* and Advia 2120i (S/N IR 17191947) (2) Siemens***
	1. White blood cells (WBC)	Flow cytometry 11641667 Rev. 01, 2023-06, Ch. 9
	2. Red blood cells (RBC)	Flow cytometry 11641667 Rev. 01, 2023-06, Ch. 9
	3. Haemoglobin (HGB)	Colorimetric 11641667 Rev. 01, 2023-06, Ch. 9
	4. Haematocrit (HCT%)	Automatic calculation (RBC x MCV)/10 11641667 Rev. 01, 2023-06, Ch. 9
	5. Mean cell volume (MCV)	Flow cytometry 11641667 Rev. 01, 2023-06, Ch. 9
	6. Mean corpuscular haemoglobin (MCH)	Automatic calculation (HGB/RBC) x10 11641667 Rev. 01, 2023-06, Ch. 9
	7. Mean corpuscular haemoglobin volume (MCHC)	Automatic calculation (HGB/HCT) x100 11641667 Rev. 01, 2023-06, Ch. 9
	8. Platelets (PLTs)	Flow cytometry 11641667 Rev. 01, 2023-06, Ch. 9

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Biochemical testing		
1. Blood serum	**Determination of 27 parameters**	**Automated biochemical analyzers Atellica CH 930 (S/N CM01753) (1) Siemens* and Atellica CH 930 (S/N CM01754) (2) Siemens***
	1. Albumin (ALB)	BCG Albumin Alb 11110153_EL Rev. 05, 2025-04
	2. Alkaline phosphatase (ALP)	AMP-BUFFER IFCC** ALP_2c 11110163_EL Rev. 05, 2025-04
	3. Alanine Aminotransferase (ALT)	Enzymatic, kinetic/IFCC** without P-5-P ALT 11110168_EL Rev.5, 2020-08
	4. Aspartate Aminotransferase (AST)	Enzymatic, kinetic/IFCC** without P-5-P AST 11110170_EL Rev.03, 2020-08
	5. Calcium (Ca)	Photometric with o-cresolphthalein complexone (without deproteinization) Ca 11110158_EL Rev. 04, 2025-04
	6. Direct Bilirubin (DBil)	Chemical oxidation using Vanadate DBil_2 11110150_EL Rev. 04, 2024-01
	7. Total Bilirubin (TBil)	Chemical oxidation using Vanadate TBil_2 11110149_EL Rev. 06, 2024-06
	8. Creatinine	JAFFE METHOD (picric acid reaction) Crea_2 11110165_EL Rev. 05, 2024-10
	9. Cholesterol (Chol)	Enzymatic reaction CHOD – PAP Chol_2 11642865_EL Rev. 04, 2022-11
	10. Creatinine kinase (CK)	Photometric IFCC** (HEXOCINASE-G6PD) CK_L 11110165_EL Rev. 05, 2024-10
	11. Iron (Iron)	Ferrozine Iron_2 11110164_EL Rev. 03, 2024-11
	12. Glucose (Glu)	Enzymatic Hexokinase GluH_3 11110155_EL Rev. 06, 2025-04
	13. Gamma-glutamyl trasferase (γ-GT)	Photometric measurement 5-Amino-2-Nitrobenzoate (ANB)/IFCC** substrate (L-γ-glutamyl-3-carboxy-4-nitroanilide) GGT_2 - 11537444_EL Rev. 01, 2023-06
	14. High Density Cholesterol (HDL)	Accelerator Selective Detergent Methodology-Epa HDLC 11537267_EL Rev. 05, 2024-08
	15. Low Density Cholesterol (LDL)	Direct Enzymatic Colorimetric Quantitative Reaction With Cholesterol Esterase And Cholesterole Oxidase-Epa LDLC 11537271_EL Rev. 06, 2024-08
	16. Lactate dehydrogenase (LDH)	Photometric IFCC**, conversion of L to P LDLP 11110157_EL Rev. 04, 2019-11
Blood serum (continued)	17. Magnesium (Mg)	Xylidyl Blue

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
		Mg 11110175_EL Rev. 03, 2024-06
	18. Phosphorus (Phos)	Ammonium molybdate IP 11110174_EL Rev. 04, 2020-07
	19.Total Protein (TP)	Biuret method TP_II 11537322_EL Rev. 05, 2025-10
	20. Triglycerides (Trig)	Enzymatic reaction GPO – PAP Trig_2- 11537302_EL Rev. 05, 2024-06
	21. Uric acid (UA)	Enzymatic photometric reaction uricase/peroxidase UA 11110171_EL Rev. 05, 2025-04
	22. Urea (Urea)	Urease UV liquid with glutamate dehydrogenase UN_c 11110156_EL Rev. 05, 2025-04
	23. Potassium (K)	Indirect Ion-selective Potentiometry A-LYTE IMT 11109447_EL Rev. 07, 2024-06
	24. Sodium (Na)	Indirect Ion-selective Potentiometry A-LYTE IMT 11109447_EL Rev. 07, 2024-06
	25. Chloride (Cl)	Indirect Ion-selective Potentiometry A-LYTE IMT 11109447_EL Rev. 07, 2024-06
	26. Amylase (AMY)	Ethylidene Blocked-IFCC** (G7-PNP) AMY_2 - 11111707_EL Rev. 02, 2019-08
	27.Revised C-Reactive Protein (RCRP)	Particle Enhanced Immunoturbeidimetric-Petia RCRP - 11537306_EL Rev. 03, 2025-07
Immunochemical Tests		
Blood serum	**Determination of 6 parameters**	**Automated Analyzer Atellica IM 1600 (S/N IRH 007151941) (2) Siemens***
	1. Testosterone (TESTO)	Direct Chemiluminescense TSTII 10995435_EL Rev. 07, 2023-03
	2. Prolactin (PRL)	Direct Chemiluminescense PRL 10995414_EL Rev. 06, 2024-06
	3. Progesterone (PRG)	Direct Chemiluminescense PRGE 10995415_EL Rev. 05, 2023-03
	4. Follicle Stimulating Hormone (FSH)	Direct Chemiluminescense FSH 10995346_EL Rev. 07, 2023-03
	5. Luteinizing Hormone (LH)	Direct Chemiluminescense LH 10995369_EL Rev. 05, 2023-03
	6. Estradiol (E2)	Direct Chemiluminescense eE2 10995342_EL Rev. 07, 2023-07

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood serum (continued)	**Determination of 14 parameters**	**Automated Analyzer Atellica IM 1600 (S/N IRH 007601944) (1) Siemens***
	1. Free Triiodothyronine (FT3)	Direct Chemiluminescense FT3 10995347_EL Rev. 04, 2023-03
	2. Triidothyronine total (T3)	Direct Chemiluminescense T3 10995424_EL Rev. 04, 2023-03
	3. Free Thyroxin (FT4)	Direct Chemiluminescense FT4 10995348_EL Rev. 07, 2023-03
	4. Thyroxin total (T4)	Direct Chemiluminescense T4 10995425_EL Rev. 04, 2023-03
	5. Thyroid Stimulatin Hormone (TSH)	Direct Chemiluminescense TSH3-UL 11208609_EL Rev. 02, 2025-02
	6. Carcinoembryonic antigen (CEA)	Direct Chemiluminescense CEA 10995312_EL Rev. 05, 2022-10
	7. Cancer antigen CA 125	Direct Chemiluminescense CA 125II 10995283_EL Rev. 05, 2022-09
	8. Cancer antigen CA 15-3	Direct Chemiluminescense CA 15-3 10995284_EL Rev. 07, 2024-11
	9. Cancer antigen CA 19-9	Direct Chemiluminescense CA 19-9TM 10995285_EL Rev. 05, 2024-10
	10. Prostate Specific Antigen (PSA)	Direct Chemiluminescense PSA 0995416_EN Rev. 07, 2025-06
	11. Free Prostate Specific Antigen (fPSA)	Direct Chemiluminescense fPSA 10995345_EL Rev. 04, 2022-10
	12. Ferritin (Fer)	Direct Chemiluminescense Fer 10995343_EL Rev. 04, 2023-03
	13. β-Human Chorionic Gonadotropin (β-hCG)	Direct Chemiluminescense ThCG 10995426_EN Rev. 06, 2024-07
	14. Alpha Fetoprotein (AFP)	Direct Chemiluminescense AFP - 10995270_EN Rev. 06, 2024-11
2.Blood plasma (Heparin)	**Determination of 2 parameters**	**Automated analyzers Atellica IM 1600 (S/N IRH 007601944) (1) Siemens* and Atellica IM 1600 (S/N IRH 007151941) (2) Siemens***
	1. High Sensitivity troponin I (TnIH)	Direct Chemiluminescense TnIH 11208873_EN Rev. 11, 2025-04
	2. Creatine kinase –MB (CK-MB)	Direct Chemiluminescense CKMB 10995316_EL Rev. 04, 2024-08
Blood serum	**Determination of 10 parameters**	**Automated analyzer Architect i1000 SR (S/N L1SR50884) Abbott ***

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	1. Antibodies IgG to Hepatitis A virus (HAV IgG)	Chemiluminescense microparticle immunoassay (CMIA) HAVAb-IgG 6C29 G6-3888/R04, 2021-02
	2. Antibody to Hepatitis C virus (Anti-HCV)	Chemiluminescense microparticle immunoassay (CMIA) Anti-HCV G57211/R14, 2021-01
	3. Hepatitis B surface antigen (HBsAg)	Chemiluminescense microparticle immunoassay (CMIA) HBsAg Qualitative II B2G22G G3-8857/R07, 2020-07
	4. Antibodies to Hepatitis B core antigen (Anti HBc)	Chemiluminescense microparticle immunoassay (CMIA) Anti-HBc 8L44 G48891/R12, 2024-03
	5. Antibody to Hepattitis B surface antigen (Anti-HBs)	Chemiluminescense microparticle immunoassay (CMIA) Anti-HBs 7C18 G68272/R03, 2019-05
	6. Antibody e to Hepatitis B antigen (Anti HBe)	Chemiluminescense microparticle immunoassay (CMIA) Anti-HBe 6C34 G63814/R09, 2024-05
	7. Antigen e to Hepatitis B virus (HBeAg)	Chemiluminescense microparticle immunoassay (CMIA) HBeAg 6C32 G63817/R05, 2024-05
	8. Antibodies IgM to Hepatitis B core antigen (Anti HBc-IgM)	Chemiluminescense microparticle immunoassay (CMIA) Anti-HBc IgM 6C33 G63719/R06, 2024-03
	9. Antibodies IgM to Hepatitis A virus (HAV IgM)	Chemiluminescense microparticle immunoassay (CMIA) HAVAb-IgM 6C30 G68259/R05, 2024-07
	10. Human Immunodeficiency Virus (HIV-1/HIV-2)	Chemiluminescense microparticle immunoassay (CMIA) G38978/R10, 2024-05
Blood coagulation Tests		
1. Blood plasma (sodium citrate)	**Determination 5 parameters**	**Automated analyzers BCS-XP (S/N 282767) (1) and BCS-XP (S/N 141920) (2) Siemens***
	1. Prothrombin time (PT)	Clot formation Thromborel S 11540459_el Rev. 13, 2025-02
1. Blood plasma (sodium citrate) (continued)	2. PT - INR (International Normalized Ratio)	Clot formation Thromborel S 11540459_el Rev. 13, 2025-02
	3. Activated Partial Thromboplastin time (APTT)	Clot formation Pathromtin SL 11539591_el Rev. 13, 2025-01

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	4. Fibrinogen (FIB)	Modified Clauss Multifibren U 11540991_el Rev. 07, 2025-01
	5. DDimers (DD)	Immunoturbidimetry INNOVANCE D-Dimer 11531374_el Rev. 15, 2024-11

**Reference to the commercial name of a specific analyzer/kit, refers to a specific analytical method and protocol*
***IFCC: International Federation of Clinical Chemistry*

Site of assessment: **Laboratory permanent premises, 12 El. Venizelou str & Giannopoulou, 185 47, N. Faliro, Greece.**
Primary Sample Collection Site: **9 Ethn. Makariou str & 1 El. Venizelou, 185 47, N. Faliro, Greece.**
Approved signatories: **A.Tsakris, E.Psomas, I.Dedrinos, M Dedrinou-Thomakou, A.Adamopoulou**

This Scope of Accreditation replaces the previous one dated 06.05.2026.
The Accreditation Certificate No. **1106**-4, to ELOT EN ISO 15189:2022, is extended until 16.11.2030.

Athens, 29 June 2026

Konstantinou Evangelos Apostolos
CEO of ESYD