Hellenic Accreditation System

Annex G1/Δ8 to the Certificate No. **662**-10

SCOPE of ACCREDITATION

of the

Clinical Laboratory

of the

PRIVATE COOPERATIVE DIAGNOSTIC LABORATORIES MEDISYN MEDICAL S.A.- LARISSA BRANCH

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Immunochemical Tests		
Blood Serum	**Determination of 27 parameters**	**Automated immunology analyzers SIEMENS Atellica IM * Δ.550, E.550-1, E550-2**
	1. Cortisol	Chemiluminescence (CLIA) (competitive) IM 2
	2. Estradiol (E2)	Chemiluminescence (CLIA) (competitive) IM 2
	3. Free Prostate Specific Antigen (FPSA)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	4. Free Triidothyronine (FT3)	Chemiluminescence (CLIA) (competitive) IM 1
	5. Free Thyroxine (FT4)	Chemiluminescence (CLIA) (competitive) IM 1
	6. β-Human Chorionic Gonadotropine (β-HCG)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 2
	7. Immunoglobulin E (IgE)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	8.Progesterone (PRG)	Chemiluminescence (CLIA) (competitive) IM 2
	9. Testosterone Total (TT)	Chemiluminescence (CLIA) (competitive) IM 2
	10. Total Triidothyronine (TT3)	Chemiluminescence (CLIA) (competitive) IM 1
	11.Total Thyroxine (TT4)	Chemiluminescence (CLIA) (competitive) IM 1
	12. Carcinoembryonic Antigen (CEA)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	13. Cancer Antigen 15-3 (CA 15-3)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	14. Cancer Antigen 125 (CA 125)	Chemiluminescence (CLIA) (non-

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood Serum (continued)		competitive sandwich) IM 1
	15. α-Fetoprotein (AFP)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	16. Prostate Specific Antigen (PSA)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	17. Ferritin	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1 & IM 2
	18.Vitamin B12	Chemiluminescence (CLIA) (competitive) IM 1
	19. Folate	Chemiluminescence (CLIA) (competitive) IM 1
	20. Follicle Stimulating Hormone (FSH)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 2
	21. Luteinizing Hormone (LH)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 2
	22. Prolactin (PRL)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 2
	23. Thyroid-stimulating hormone (TSH)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1 & IM 2
	24.Anti-thyroglobulin antibodies (anti-TG)	Chemiluminescence (CLIA) (Competitive) IM 1
	25. Anti-thyroid peroxidase antibodies (anti-TPO)	Chemiluminescence (CLIA) (Competitive) IM 1
	26. 25-OH Vitamin D	Chemiluminescence (CLIA) (competitive) IM 1
Blood serum or blood plasma (EDTA)	27. Intact Parathyroid Hormone (iPTH)	Chemiluminescence (CLIA) (non-competitive sandwich) IM 1
	Determination of 8 parameters	**Automated biochemistry analyzer Abbott ARCHITECT i2000* Δ.550, E.550-1, E550-2**
Blood serum or blood plasma (EDTA)	1. Total Homocystein (HCY)	Chemiluminescence (CMIA)
Blood serum	2. Thyroglobulin Tg	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	3. Hepatitis B virus surface antigen (HBsAg)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	4. Hepatitis B virus surface antibodies (HBsAb)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	5. Hepatitis B virus core total antibodies (HBcAb)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	6. Epstein-Barr IgM antibodies.(EBV anti-VCA IgM)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	7. Epstein-Barr IgG antibodies (EBV anti-VCA IgG)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	8. Hepatitis A virus antibodies (HAVAb)	Chemiluminescent microparticle immunoassay (CMIA) (non-competitive)
	Determination of 3 parameters	**Automated biochemistry analyzer IMMULITE 2000* Δ.550, E.550-1, E550-2**
Blood serum	1. Calcitonin (CT)	Chemiluminescence (CLIA)
	2. Cancer Antigen 19-9 (CA 19-9)	Chemiluminescence (CLIA) (non-competitive)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood plasma (EDTA)	1.Adrenocorticotropic hormone (ACTH)	Chemiluminescence (CLIA) (non-competitive)
Biochemical Tests		
Blood Serum	**Determination of 33 parameters**	**Automated Biochemistry analyzers Siemens Atellica CH* Δ.550, E.550-1, E550-2**
	1.Total Cholesterol(TC)	Enzymatic - Colorimetric (CHOD-PAP)
	2. Calcium Total (Ca)	Colorimetric (OCPC)
	3. Phosphate (P)	Colorimetric (Phosphomolybdate)
	4. Glucose(GLU)	Enzymatic - Colorimetric (GOD-PAP)
	5. Creatinine (CREA)	Enzymatic - Colorimetric (Jaffe)
	6. Potassium (K)	Ion Selective Electrode (ISE)
	7. Sodium (Na)	Ion Selective Electrode (ISE)
	8. Magnesium (Mg)	Colorimetric (Xylidyl blue)
	9. Albumin (ALB)	Colorimetric (BCP)
	10. Total Proteins (TP)	Colorimetric (Biuret)
	11.Total globin (SF)	Calculated from: TP, ALB
	12. Albumin/Globin ratio	Calculated from: ALB, SF
	13. Amylase (AMY)	Enzymatic - Colorimetric (IFCC**) (G7-PNP)
	14. HDL Cholesterol (HDL-C)	Enzymatic - Colorimetric (PEG)
	15. Aspartate Aminotransferase (AST/SGOT)	Colorimetric (IFCC**)
	16. Alanine Aminotransferase (ALT/SGPT)	Colorimetric (IFCC**)
	17. Direct Bilirubin (DBIL)	Colorimetric (Vanadate oxidation)
	18. Total Bilirubin (TBIL)	Colorimetric (Vanadate oxidation)
	19.Urea	Enzymatic - Kinetic -Colorimetric (Urease)
	20. Uric Acid (UA)	Enzymatic - Colorimetric (Uricase-Peroxidase)
	21. Alkaline Phosphatase (ALP)	Colorimetric (IFCC**)
	22. Gamma-Glutamyl transferase (γGT)	Enzymatic - Colorimetric (γ-Glutamyl-3-carboxyl-4nitroanilide)
	23. Triglycerides (TGs)	Enzymatic - Colorimetric (GPO-PAP)
	24. Iron (Fe)	Colorimetric (Ferrozine)
	25. Cholinesterase (CHE)	Colorimetric (Butyryl Thiocholine/5-thio-2-nitrobenzoate)
	26. Chloride (Cl)	Ion Selective Electrode (ISE)
	27. C-reactive protein (CRP)	Immunoturbidimetry (ITA)
Blood Serum (continued)	28. VLDL Cholesterol (VLDL-C)	Calculated from TRIG (Enzymatic - Colorimetric)
	29. Atherogenic index ((TC)/ (HDL-C))	Calculated from: TC, HDL-C

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	30.Non-HDL-C	Calculated from: TC, HDL-C
	31. Total Lipids	Calculated from TC and TG (Enzymatic - Colorimetric)
	32. Phospholipids	Calculated from TC (Enzymatic - Colorimetric)
	33. Lactate Dehydrogenase (LDH)	Enzymatic - Colorimetric (L-P) (IFCCC**)
Blood Coagulation Tests		
Blood plasma (citrate)	**Determination of 6 parameters**	**Automated Coagulation Analyzer Sysmex CS2500*** **Δ.550, E.550-1, E550-2**
	1. Prothrombin time (PT sec)	Clot detection
	2. Prothrombin time (PT %)	Clot detection
	3. Prothrombin time (International Normalized Ratio, PT INR)	Clot detection
	4. Activated partial prothrombin time (aPTT)	Clot based assay
	5. Fibrinogen activity (FIB)	Clot detection
	6. D-Dimers	Immunoturbidimetric assay
Chemical tests		
	Determination of 10 Parameters	**Mass spectrometer, Agilent 7850 ICP-MS**
Blood Serum	1. Determination of Selenium (Se) 2. Determination of Zinc (Zn)	In-house method with ICP-MS
Whole blood (EDTA)	1. Determination of Lead (Pb) 2. Determination of Zinc (Zn) 3. Determination of Arsenic (As) 4. Determination of Cadmium (Cd)	In-house method with ICP-MS
Urine	1. Determination of Lead (Pb) 2. Determination of Zinc (Zn) 3. Determination of Arsenic (As) 4. Determination of Cadmium (Cd)	In-house method with ICP-MS
Hematological Tests		
Whole blood (EDTA)	**Determination of 1 parameter**	**High-performance liquid chromatography (HPLC) analyzers G11_1 & G11_2, TOSOH Biosciences*** **Δ.550, E.550-1, E550-2**
	1. Glycated Haemoglobin A_{1C} (HbA_{1C})	Ion-exchange high-performance liquid chromatography (HPLC)

**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 assessement: **Permanent Laboratory premises, 119 Sokratous str., P.C. 41336, Larissa, Greece.**

Approved signatories: **Ch. Dinas, S. Vytiniotis, E.Palaskas., Z. Garifallopoulou.**

This scope of Accreditation replaces the previous one dated 16.03.2026.
The Accreditation Certificate No. **662**-10, to ELOT EN ISO 15189:2022, is valid until 21.03.2026.

Athens, 08th April 2026

Evangelos Apostolos Konstantinou
CEO of ESYD