Hellenic Accreditation System

Annex G1/5 to the Certificate No.**1292**-3

SCOPE of ACCREDITATION

of the

CLINICAL LABORATORY

of

ATHENS MEDICAL CENTER S.A.

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
Biochemical testing		
Blood Serum	**Determination 60 parameters**	**Automated biochemical analyzers Alinity c 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Albumin (ALB)	Colorimetric (Bromocresol Green)
	2. Total Protein (TP)	Biuret reaction
	3. Total globulin	Calculated from total protein (TP) and albumin (ALB)
	4. Ratio A/G	Calculated from albumin (ALB) and total globulin
	5. Glucose (GLUC)	Enzymatic – colorimetric (HEX-G6PDH)
	6. Urea (UREA)	Urease
	7. Urea nitrogen	Calculated according to: [Urea (mg/dl) / 2,14]
	8. Uric acid (UA)	Uricase
	9. Creatinine (CREA)	Kinetic Alkaline Picrate (Jaffe)
	10. Cholesterol Total (CHOL)	Enzymatic
	11. Triglycerides (TRIG)	Glycerol-phosphate oxidase
	12. HDL Cholesterol (HDL-Chol)	ASD -Accelerator Selective Detergent
	13. LDL Cholesterol (LDL-Chol)	Calculated according to indirect formula of Friedewald
	14. VLDL Cholesterol (VLDL-Chol)	Calculated from triglycerides (TRIG)

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
Blood Serum (continued)	15. Atherogenic index	Calculated from total cholesterol (CHOL) and HDL cholesterol (HDL-Chol)
	16. Total lipids (LIPIDS)	Calculated from total cholesterol (CHOL) and triglycerides (TRIG)
	17. Phospholipids (PH-LIP)	Calculated from total cholesterol (CHOL)
	18. Aspartate Aminotransferase (AST/SGOT)	Enzymatic (without P-5'-P)
	19. Alanine Aminotransferase (ALT/SGPT)	Enzymatic (without P-5'-P)
	20. Gamma-Glytamyl Transferase (γ-GT)	Substrate L-g-gloutamyl-3-carboxy-4-nitroaniline
	21. Alkaline Phosphatase (ALP)	para-Nitrophenylphosphate (p-NPP)
	22. Bilirubin Total (TBIL)	Diazonium
	23. Bilirubin direct (DBIL)	Diazonium
	24. Bilirubin indirect (IBIL)	Calculated from bilirubin total (TBIL) and bilirubin direct (DBIL)
	25. Amylase (AMY)	Enzymatic (CNPG3 substrate)
	26. Creatine Kinase (CPK)	NAC (N-acetyl -L-cysteine)
	27. Lactate Dehydrogenase (LDH)	Conversion reaction galactic to pyruvate (IFCC)
	28. Iron (Fe)	Ferene
	29. Magnesium (Mg)	Enzymatic
	30. Phosphorus (Phos)	Phosphomolybdate
	31. Calcium (Ca)	Arsenazo III
	32. Potassium (K)	Ion-Selective electrode diluted (indirect)
	33. Sodium (Na)	Ion-Selective electrode diluted (indirect)
	34. Chloride (Cl)	Ion-Selective electrode diluted (indirect)
	35. eGFR	Calculated (CKD-EPI Creatinine Equation-2021)
Urine	36. Glucose urine (GLU-U)	Enzymatic – colorimetric (HEX-G6PDH)
	37. Urea urine (UREA-U)	Urease
	38. Nitrogen urine	Calculated according to formula: [urine urea (mg/dl) / 2,14]
	39. Creatinine urine (CREA-U)	Kinetic process with alkaline Picrate
	40. Uric acid urine (URIC-U)	Uricase
Urine	41. Potassium urine (K-U)	Ion-Selective electrode diluted

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
(continued)		(indirect)
	42. Sodium urine (Na-U)	Ion-Selective electrode diluted (indirect)
	43. Chloride urine (Cl-U)	Ion-Selective electrode diluted (indirect)
	44. Calcium urine (Ca-U)	Arsenazo III
	45. Phosphorus urine (P-U)	Phosphomolybdate
	46. Magnesium urine (Mg-U)	Enzymatic
	47. Urine Calcium / Urine Creatinine ratio	Calculated: Ca-U/Crea-U
	48. Uric acid/ Urine creatinine ratio	Calculated: UA-U/Crea-U
	49. Urine Phosphorus/ Urine Creatinine ratio	Calculated :P-U/Crea-U
	50. 24 hour urine nitrogen	Calculated from urine nitrogen
	51. 24-hour urine calcium	Calculated from urine calcium
	52. 24-hour urine potassium	Calculated from urine potassium
	53. 24-hour urine creatinine	Calculated from urine creatinine
	54. 24-hour urine total protein	Calculated from urine proteins
	55. 24-hour urine magnesium	Calculated from urine magnesium
	56. 24-hour urine sodium	Calculated from urine sodium
	57. 24-hour urine urea	Calculated from urine urea
	58. 24-hour urine uric acid	Calculated from urine uric acid
	59. 24-hour urine phosphorus	Calculated from urine phosphorus
	60. 24-hour urine chloride	Calculated from urine chloride
Serum and urine	**Determination 1 parameter**	**Automated biochemical analyzers Alinity c 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Creatinine clearance 24h	Calculative: [urine Crea (mg/dl) x V urine 24h(Ml) /[1440 x Crea serum (mg/dl)]
Serum	**Determination 5 parameters**	Automated biochemical analyzer Alinity **c 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Cholinesterase (CHE)	Enzymatic –Kinetic - Colorimetric (DGKC Butyrylthiocholin 37 °C
	2. Haptoglobin	Immunoturbidimetry
	3. Transferrin	Immunoturbidimetry
	4. TIBC	Calculative: 127 x Transferrin

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
	5. Transferrin Saturation (%)	Calculative: 100 x Iron/TIBC
Urine	**Determination 2 parameters**	**Automated biochemical analyzer Alinity c 1 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Urine protein (U/CSF Protein)	Turbidimetry (Benzethonium Chloride)
	2. Urine albumin/ Urine creatinine ratio	Calculated: U/CSF Protein /Crea-U
Urine	**Determination 2 parameters**	**Automated biochemical analyzer Alinity c 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Microalbumin urine (MicroAlb-U)	Turbidimetry / Immunoturbidimetry
	2. 24-hour Microalbumin urine	Calculated from urine microalbumin
Whole blood	**Determination 1 parameter**	**Automated biochemical analyzer Alinity c 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Hemoglobin A1c (HbA1C)	Enzymatic
Blood serum	**Determination of 8 specific proteins**	**Automated biochemical analyzer Alinity c 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Complement C3	Immunoturbidimetry
	2. Complement C4	Immunoturbidimetry
	3. Immunoglobulin A (IgA)	Immunoturbidimetry (ITA)
	4. Immunoglobulin G (IgG)	Immunoturbidimetry (ITA)
	5. Immunoglobulin M (IgM)	Immunoturbidimetry (ITA)
	6. Immunoglobulin E (IgE)	Turbidimetry / Immunoturbidimetry
	7. Rheumatoid factor (RF)	Immunoturbidimetry
	8. Antistreptolysin-O (ASTO)	Turbidimetry / Immunoturbidimetry
Blood serum	**Determination of 1 specific protein**	**Automated biochemical analyzers Alinity c 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. C-reactive protein (CRP)	Turbidimetry / Immunoturbidimetry
Blood serum	**Determination of 1 specific protein**	**Automated biochemical analyzer Alinity c 1 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. β2 microglobulin	Turbidimetry / Immunoturbidimetry
Immunochemical Testing		
Blood serum	**Determination of 11 parameters**	**Automated immunochemical**

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
		analyzer Alinity i 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)
	1. Ferritin (FERR)	Chemiluminescent Microparticle Immunoassay (CMIA)
	2. 25-OH Vitamin D (25-OH VitD)	Chemiluminescent Microparticle Immunoassay (CMIA)
	3. β-Human Chorionic Gonadotropin (β-hCG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	4. CPK-MB	Chemiluminescent Microparticle Immunoassay (CMIA)
	5. Troponin I high sensitivity (TnI hs)	Chemiluminescent Microparticle Immunoassay (CMIA)
	6. Hepatitis C antibodies (anti-HCV)	Chemiluminescent Microparticle Immunoassay (CMIA)
	7. Hepatitis B surface antigen (HBsAg)	Chemiluminescent Microparticle Immunoassay (CMIA)
	8. Human immunodeficiency virus type 1/2 antigen/antibodies (HIV 1/2 Ag/Ab)	Chemiluminescent Microparticle Immunoassay (CMIA)
	9. Procalcitonin (PCT)	Chemiluminescent Microparticle Immunoassay (CMIA)
	10. Vitamin B12	Chemiluminescent Microparticle Immunoassay (CMIA)
	11. Folate acid	Chemiluminescent Microparticle Immunoassay (CMIA)
Blood serum	**Determination of 21 parameters**	**Automated immunochemical analyzer Alinity i 1 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Thyroid-Stimulating Hormone (TSH)	Chemiluminescent Microparticle Immunoassay (CMIA)
	2. Free Triiodothyronine (FT3)	Chemiluminescent Microparticle Immunoassay (CMIA)
	3. Free Thyroxine (FT4)	Chemiluminescent Microparticle Immunoassay (CMIA)
	4. Total Triiodothyronine (T3)	Chemiluminescent Microparticle Immunoassay (CMIA)
	5. Total Thyroxine (T4)	Chemiluminescent Microparticle Immunoassay (CMIA)
	6. Carcinoembryonic antigen (CEA)	Chemiluminescent Microparticle Immunoassay (CMIA)
	7. Cancer antigen 19.9 (Ca19.9)	Chemiluminescent Microparticle Immunoassay (CMIA)
	8. Cancer antigen 15.3 (Ca15.3)	Chemiluminescent Microparticle Immunoassay (CMIA)
	9. Cancer antigen 125 (Ca125)	Chemiluminescent Microparticle Immunoassay (CMIA)
	10. Prostate-Specific Antigen (PSA)	Chemiluminescent Microparticle Immunoassay (CMIA)
	11. Free Prostate-Specific Antigen (free-PSA)	Chemiluminescent Microparticle Immunoassay (CMIA)
	12. A-fetal protein (AFP)	Chemiluminescent Microparticle

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
		Immunoassay (CMIA)
	13. Homocysteine (HCY)	Chemiluminescent Microparticle Immunoassay (CMIA)
	14. Epstein barr viral capsid IgG antibodies (EBV VCA IgG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	15. Epstein barr viral capsid IgM antibodies (EBV VCA IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
	16. Cytomegalovirus IgG antibodies (CMV IgG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	17. Cytomegalovirus IgM antibodies (CMV IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
	18. Toxoplasma IgG antibodies (Toxo IgG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	19. Toxoplasma IgM antibodies (Toxo IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
	20. Rubella IgG antibodies (Rubella IgG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	21. Rubella IgM antibodies (Rubella IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
Blood serum	**Determination of 12 parameters**	**Automated immunochemical analyzer Alinity i 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1. Parathyroid hormone (PTH)	Chemiluminescent Microparticle Immunoassay (CMIA)
	2. Cortisol (CORT)	Chemiluminescent Microparticle Immunoassay (CMIA)
	3. Insulin	Chemiluminescent Microparticle Immunoassay (CMIA)
	4. Prolactin	Chemiluminescent Microparticle Immunoassay (CMIA)
	5. Testosterone	Chemiluminescent Microparticle Immunoassay (CMIA)
	6. Luteinizing hormone	Chemiluminescent Microparticle Immunoassay (CMIA)
	7. Follicle-stimulating hormone	Chemiluminescent Microparticle Immunoassay (CMIA)
	8. Hepatitis A IgM antibodies (anti-HAV IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
	9. Hepatitis A IgG antibodies (anti-HAV IgG)	Chemiluminescent Microparticle Immunoassay (CMIA)
	10. Hepatitis B core antigen IgM antibodies (anti-HBc IgM)	Chemiluminescent Microparticle Immunoassay (CMIA)
	11. Hepatitis B core antigen total antibodies (anti-HBc)	Chemiluminescent Microparticle Immunoassay (CMIA)
	12. N-terminal pro B-type natriuretic peptide (N-T ProBNP)	Chemiluminescent Microparticle Immunoassay (CMIA)
Hematological testing		
Whole Blood (EDTA)	**Determination of 11 parameters**	**Automated hematology analyzers Alinity hq 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)**

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
	1. White blood cell (WBC)	Flow cytometry with optical scattering and fluorescence
	2. Red blood cell (RBC)	Flow cytometry with optical scattering
	3. Platelets (PLTs)	Flow cytometry with optical scattering
	4. Mean Cell Volume (MCV)	Flow cytometry with optical scattering
	5. Mean corpuscular haemoglobin (MCH)	Calculated from HGB & RBC
	6. Mean cell haemoglobin concentration (MCHC)	Calculated parameter
	7. Hemoglobin (HGB)	Absorption spectrophotometry
	8. Hematocrit (HCT)	Calculated from RBC & MCV
	9. RBC Distribution Width (RDW)	Flow cytometry with optical scattering
	10. Mean platelets volume (MPV)	Flow cytometry with optical scattering
Whole Blood (EDTA)	**White Blood Cell Automated Differential Count**	**Automated hematology analyzers Alinity hq 1 & 2 ABBOTT* (E.BE.01-1/20-10-2025)**
	1.Neutrophil (number and %)	Flow cytometry with optical scattering
	2.Lymphocyte (number and %)	Flow cytometry with optical scattering
	3.Monocyte (number and %)	Flow cytometry with optical scattering
	4.Eosinophil (number and %)	Flow cytometry with optical scattering
	5.Basophil (number and %)	Flow cytometry with optical scattering
Blood films	**Determination of 3 parameters**	**O.BE.01.03,3/19-02-2026 O.BE.01.05,1,01-12-2021**
	1. White Blood Cell Differential Count	
	2. Red Blood Cells' Morphology	
	3. Platelets' Morphology	
Blood Coagulation Testing		
Blood Plasma (citrate)	**Determination of 5 parameters**	**Automated coagulation analyzers STA-R MAX 3 & STA COMPACT MAX, STAGO* (E.BE.01-1/20-10-2025)**
Blood Plasma (citrate) (continued)	1. Prothrombine time (PT sec)	Clot detection
	2. Activated partial prothrombine time (APTT)	Clot detection
	3. Prothrombine time (PT INR)	Calculated from Prothrombin time
	4. Fibrinogen (FIB)	Clot detection

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
	5. D-Dimer	Turbidimetry
Blood Plasma (citrate)	**Determination of 3 parameters**	**Automated coagulation analyzer STA-R MAX 3 STAGO* (E.BE.01-1/20-10-2025)**
	1. Antithrombin III	Colorimetric
	2. Protein C	Colorimetric
	3. Protein S (Free)	Turbidimetry
Immunological tests		
Blood serum	Protein electrophoresis (Albumin, α1-globulins, α2- globulins, β1- globulins, β2-globulins, γ- globulins)	Automated Electrophoresis System Capillarys 3 OCTA SEBIA * (O.BE.01.29/1/30-08-2024)
Blood serum	Antinuclear antibodies (ANA)	Indirect Immunofluorescence (O.BE.01.31/2/04.07.2025)
Blood serum	Immunofixation	O.BE.01.28, 1, 30.08.2024
Microbiology testing		
1. Urine	Quantitative Urine Culture	O.BE.01.14, 2, 20-01-2022
2. Pharyngeal swab	Pharyngeal swab Culture	O.BE.01.21, 2, 06-11-2024
3. Stool	Stool Culture	O.BE.01.24, 2, 06-11-2024
4. Rectal smear	Rectal swab culture for detection of microorganisms that produce ESBL, CRE & VRE	O.BE.01.11, 4,28-05-2025
5. Bronchial secretions	Bronchial secretions culture for detection of microorganisms that produce ESBL, CRE & Staphylococcus MRSA	O.BE.01.11, 4,28-05-2025
6. Nasopharyngeal swab	Nasopharyngeal swab culture for detection of Staphylococcus MRSA	O.BE.01.11, 4,28-05-2025
7. Axillary and inguinal fold swab	Axilla and groin swab culture for detection of Candida auris	O.BE.01.11, 4,28-05-2025
8. Blood	Blood Culture	BACT/ ALERT VIRTUO (Biomerieux*) O.BE.01.34, 1, 19.05.2025
9. Microbial isolate from cultures of human biological samples	Identification	VITEK MS PRIME (Biomerieux*) O.BE.01.25, 2, 21-01-2026
Urinanalysis		
1. Urine	**Determination of 9 parameters**	**Automated analyzers UC3500 1 & 2 SYSMEX*** O.BE.01.33, 1, 02-05-2025
	pH	Index pH method

Tested materials / Products	Types of test / Properties measured	Applied Standards / Techniques used
	Specific gravity	Refractometry
	Protein	Colorimetric
	Glucose	Enzymatic Method (GOD, POD)
	Ketones	Nitroprusside method
	Hemoglobin	Peroxidase reaction
	Urobilinogen	Interzone Salt Test
	Bilirubin	Interzone Salt Test
	Nitrates	Griess method
2. Urine, Urine sediment	**Determination of 8 parameters**	**Automated analyzers UF 4000 SYSMEX *, UD-10 SYSMEX *, Optical Microscope** (O.BE.01.33, 1, 02-05-2025)
	White Blood Cells	Flow Cytometry/Microscopic Assessment
	Red Blood Cells	Flow Cytometry/Microscopic Assessment
	Squamous Epithelial Cells	Flow Cytometry/Microscopic Assessment
	Mucus	Flow Cytometry/Microscopic Assessment
	Crystals	Flow Cytometry/Microscopic Assessment
	Casts	Flow Cytometry/Microscopic Assessment
	Bacteria	Flow Cytometry/Microscopic Assessment
	Fungi	Flow Cytometry/Microscopic Assessment

**Reference to the commercial name of a specific analyzer/kit, refers to a specific analytical method and protocol.*

Site of assessment: **Laboratory Permanent premises: 5-7 Distomou Str, 15125 Marousi, Athens, Greece.**
Primary sample collection sites: **Permanent premises Athens Medical Center SA 5-7, Distomou str., 15125 Marousi, Athens, Greece.**
Approved signatories: **G. Chronopoulou, A. Adam, N. Marmaras, S. Stokkou, M. Giner D. Korrou.**

This Scope of Accreditation replaces the previous one dated 07.10.2025.
The Accreditation Certificate No.**1292-**3, to ELOT EN ISO 15189:2022, is valid until 11.04.2031.

Athens, 6th of April 2026

Konstantinou Evangelos Apostolos
CEO of ESYD