Hellenic Accreditation System

Annex G1/ B6 to the Certificate No. **994**-5

SCOPE of ACCREDITATION

of the

Clinical Laboratory

of

Central Clinical and Molecular Genetics Laboratories Private Multimedical Center, Private Diagnostic Centers S.A.

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Biochemical Tests		
1. Blood serum	**Determination of 50 parameters**	**Automated biochemical analyzer ATELLICA CH (1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Glucose	Enzymatic Chromatometric Reaction
	2. Urea	Enzymatic Chromatometric Reaction
	3. Urea nitrogen	Enzymatic Chromatometric Reaction
	4. Uric Acid	Enzymatic Chromatometric Reaction
	5. Creatinine	Kinetic Chromatometric Reaction
	6. Glutamic-oxaloacetic transaminase (SGOT)	Enzymatic Chromatometric Reaction
	7. Glutamic-pyruvic transaminase (SGPT)	Enzymatic Chromatometric Reaction
	8. Gamma-glutamyl trasferase (γ-GT)	Enzymatic Chromatometric Reaction
	9. Total Cholesterol	Enzymatic Chromatometric Reaction
	10. HDL Cholesterol	Enzymatic Chromatometric Reaction
	11. LDL Cholesterol	Enzymatic Chromatometric Reaction
	12. LDL Cholesterol	Calculated
	13. Triglycerides	Enzymatic Chromatometric Reaction
	14. Iron	Chromatometric Reaction
	15. Alkaline phosphatase (ALP)	Enzymatic Chromatometric Reaction
	16. Calcium	Chromatometric Reaction

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood serum (continued)	17. Inorganic Phosphate	Chromatometric Reaction
	18. Potassium	Indirect Potentiometric ISE
	19. Sodium	Indirect Potentiometric ISE
	20. Chloride	Indirect Potentiometric ISE
	21. Creatine kinase (CK)	Enzymatic Chromatometric Reaction
	22. Lactate dehydrogenase (LDH)	Enzymatic Chromatometric Reaction
	23. Albumin	Chromatometric Reaction
	24. Total Protein	Chromatometric Reaction
	25. Magnesium	Chromatometric Reaction
	26. Amylase	Enzymatic Chromatometric Reaction
	27. Bilirubin Total	Chromatometric Reaction
	28. Bilirubin Direct	Chromatometric Reaction
	29. Bilirubin indirect	Calculated
	30. TIBC – Total iron-binding capacity	Ferene Direct – End Point Chromatometric Reaction
	31. Transferrin	Turbidimetric
	32. C Reactive Protein (CRP)	Turbidimetric
	33. Complement C3	Turbidimetric
	34. Complement C4	Turbidimetric
	35. Total Globulins	Calculated
	36. Total Lipids	Calculated
	37. VLDL Cholesterol	Calculated
	38. Atherogenic index	Calculated
	39. NON-HDL Cholesterol	Calculated
	40. Albumin rate	Calculated
	41. Creatinine Clearance	Calculated
	42. Urea Clearance	Calculated
	43. GFR (Glomerular filtration rate)	Calculated
	44. Transferrin saturation	Calculated
	45. Anti-streptolysine O (ASTO)	Turbidimetric
	46. Immunoglobulin A (IGA)	Turbidimetric
	47. Immunoglobulin G (IGG)	Turbidimetric
	48. Immunoglobulin M (IGM)	Turbidimetric
	49. B2-Microglobulin	Turbidimetric

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood serum (continued)	50. Lipase	Chromatometric Reaction
2. Blood serum	**Determination of 27 parameters**	**Automated biochemical analyzer ATELLICA CH (2), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Glucose	Enzymatic Chromatometric Reaction
	2. Urea	Enzymatic Chromatometric Reaction
	3. Urea nitrogen	Enzymatic Chromatometric Reaction
	4. Uric Acid	Enzymatic Chromatometric Reaction
	5. Creatinine	Kinetic Chromatometric Reaction
	6. Glutamic-oxaloacetic transaminase (SGOT)	Enzymatic Chromatometric Reaction
	7. Glutamic-pyruvic transaminase (SGPT)	Enzymatic Chromatometric Reaction
	8. Gamma-glutamyl trasferase (γ-GT)	Enzymatic Chromatometric Reaction
	9. Total Cholesterol	Enzymatic Chromatometric Reaction
	10. HDL Cholesterol	Enzymatic Chromatometric Reaction
	11. LDL Cholesterol	Calculated
	12. Triglycerides	Enzymatic Chromatometric Reaction
	13. Iron	Chromatometric Reaction
	14. Alkaline phosphatase (ALP)	Enzymatic Chromatometric Reaction
	15. Calcium	Chromatometric Reaction
	16. Zinc	Chromatometric Reaction
	17. Potassium	Indirect Potentiometric ISE
	18. Sodium	Indirect Potentiometric ISE
	19. Chloride	Indirect Potentiometric ISE
	20. Creatinine kinase (CK)	Enzymatic Chromatometric Reaction
	21. Lactate dehydrogenase (LDH)	Enzymatic Chromatometric Reaction
	22. C Reactive Protein (CRP)	Turbidimetric
	23. Total Lipids	Calculated
	24. VLDL Cholesterol	Calculated
	25. Atherogenic index	Calculated
	26. NON-HDL Cholesterol	Calculated
	27. GFR (Glomerular filtration rate)	Calculated

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
3. Urine	**Determination of 16 parameters**	**Automated biochemical analyzer ATELLICA CH (1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Glucose	Enzymatic Chromatometric Reaction
	2. Urea	Enzymatic Chromatometric Reaction
	3. Urea nitrogen	Enzymatic Chromatometric Reaction
	4. Uric Acid	Enzymatic Chromatometric Reaction
	5. Creatinine	Kinetic / Chromatometric Reaction
	6. Calcium	Chromatometric Reaction
	7. Phosphate Inorganic	Chromatometric Reaction
	8. Potassium	Indirect Potentiometric ISE
	9. Sodium	Indirect Potentiometric ISE
	10. Chloride	Indirect Potentiometric ISE
	11. Albumin	Immunoturbidimetric
	12. Total Protein	Chromatometric Reaction
	13. Magnesium	Chromatometric Reaction
	14. Amylase	Enzymatic Chromatometric Reaction
	15. Creatinine Clearance	Calculated
	16. Urea Clearance	Calculated
4. Whole Blood (EDTA)	**Determination of 1 parameter**	**Automated biochemical analyzer ATELLICA CH (2), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Glucose-6-Phosphate Dehydrogenase (G-6-PD)	Enzymatic Chromatometric Reaction
5. Blood serum	**Determination of 5 parameters**	**Nephelometer, BN II, SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Apolipoprotein A1 (APO A1)	Nephelometric
	2. Apolipoprotein B (APO B)	Nephelometric
	3. Apolipoprotein B / A1 Ratio	Calculated
	4. Lipoprotein (a) (Lp(a))	Nephelometric
	5. Rheumatoid Factor (RF)	Nephelometric

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
6. Blood serum	**Determination of 1 parameter**	**Microcapillary Electrophoresis on CAPILLARYS, SEBIA * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Protein Electrophoresis	Microcapillary Electrophoresis
7. Blood serum	**Determination of 1 parameter**	**Agarose gel Electrophoresis on HYDRASYS, SEBIA * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Protein Immunofixation	Agarose gel Electrophoresis
Immunochemical Tests		
1. Blood serum	Quantitative determination of specific Immunoglobulin IgE for allergy testing	**Automated Immunochemical analyzer, IMMULITE XPi (1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
		Chemiluminescense (CLIA)
2. Blood serum	**Determination of 1 parameters**	**Automated biochemical analyzer ATELLICA CH (1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Valproic Acid	Turbidimetric
3. Blood serum	**Determination of 11 parameters**	**Automated Immunochemical analyzer, ATELLICA IM (1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Digoxin	Chemiluminescense (CLIA)
	2. Anti CCP	Chemiluminescense (CLIA)
	3. Immunoglobulin E (IGE)	Chemiluminescense (CLIA)
	4. Insulin	Chemiluminescense (CLIA)
	5. HOMA-IR (Insulin Resistance)	Calculated
	6. Cortisol	Chemiluminescense (CLIA)
	7. Thyroid-Stimulating Hormone (TSH)	Chemiluminescense (CLIA)
	8. Ferritin	Chemiluminescense (CLIA)
	9. Parathyroid Hormone (PTH)	Chemiluminescense (CLIA)
	10. Vitamin D (25-OH)	Chemiluminescense (CLIA)
	11. Human Chorionic Gonadotropin (ThCG)	Chemiluminescense (CLIA)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
4. Blood serum	**Determination of 11 parameters**	**Automated Immunochemical analyzer ATELLICA IM (2-1), SIEMENS * О.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Homocysteine	Chemiluminescense (CLIA)
	2. Troponin I	Chemiluminescense (CLIA)
	3. CK-MB mass	Chemiluminescense (CLIA)
	4. Calcitonin	Chemiluminescense (CLIA)
	5. ANTI-TG	Chemiluminescense (CLIA)
	6. ANTI-TPO	Chemiluminescense (CLIA)
	7. Free Triiodothyronine (Free-T3)	Chemiluminescense (CLIA)
	8. Free Thyroxin (Free-T4)	Chemiluminescense (CLIA)
	9. Triiodothyronine (T3)	Chemiluminescense (CLIA)
	10. Thyroxin (T4)	Chemiluminescense (CLIA)
	11. Thyroid-Stimulating Hormone (TSH)	Chemiluminescense (CLIA)
5. Blood serum	**Determination of 18 parameters**	**Automated Immunochemical analyzer ATELLICA IM (2-2), SIEMENS * О.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Prostate Specific Antigen (PSA)	Chemiluminescense (CLIA)
	2. Free Prostate Specific Antigen (Free PSA)	Chemiluminescense (CLIA)
	3. α-Fetoprotein (AFP)	Chemiluminescense (CLIA)
	4. Carcinoembryonic antigen (CEA)	Chemiluminescense (CLIA)
	5. Cancer antigen CA 125	Chemiluminescense (CLIA)
	6. Cancer antigen CA 15.3	Chemiluminescense (CLIA)
	7. Cancer antigen CA 19.9	Chemiluminescense (CLIA)
	8. Follicle Stimulating Hormone (FSH)	Chemiluminescense (CLIA)
	9. Luteinizing Hormone (LH)	Chemiluminescense (CLIA)
	10. Estradiol (E2)	Chemiluminescense (CLIA)
	11. Prolactin (PRL)	Chemiluminescense (CLIA)
	12. Progesterone (PRG)	Chemiluminescense (CLIA)
	13. Dehydroepiandrosterone sulfate (DHEA-S)	Chemiluminescense (CLIA)
	14. Sex Hormone Binding Globulin (SHBG)	Chemiluminescense (CLIA)
	15. Testosterone	Chemiluminescense (CLIA)
	16. Vitamin B12	Chemiluminescense (CLIA)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood serum (continued)	17. Ferritin	Chemiluminescense (CLIA)
	18. Folate	Chemiluminescense (CLIA)
6. Blood serum	**Determination of 6 parameters**	**Automated Immunochemical analyzer, IMMULITE XPi (2), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Thyroglobulin (TG)	Chemiluminescense (CLIA)
	2. Growth hormone (GH)	Chemiluminescense (CLIA)
	3. Osteocalcin	Chemiluminescense (CLIA)
	4. Androstenedione	Chemiluminescense (CLIA)
	5. Thyroid-Stimulating Immunoglobulin (TSI)	Chemiluminescense (CLIA)
	6. Insulin-like Growth Factor (IGF1)	Chemiluminescense (CLIA)
7. Blood serum	**Determination of 29 parameters**	**Automated Immunochemical analyzer, COBAS 6000, ROCHE * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Human Chorionic Gonadotropin (hCG+β)	Electrochemiluminescense (ECLIA)
	2. Triiodothyronine (T3)	Electrochemiluminescense (ECLIA)
	3. Thyroxin (T4)	Electrochemiluminescense (ECLIA)
	4. Thyroid-Stimulating Hormone (TSH)	Electrochemiluminescense (ECLIA)
	5. Free Triiodothyronine (Free-T3)	Electrochemiluminescense (ECLIA)
	6. Free Thyroxin (Free-T4)	Electrochemiluminescense (ECLIA)
	7. ANTI-TG	Electrochemiluminescense (ECLIA)
	8. ANTI-TPO	Electrochemiluminescense (ECLIA)
	9. Follicle Stimulating Hormone (FSH)	Electrochemiluminescense (ECLIA)
	10. Luteinizing Hormone (LH)	Electrochemiluminescense (ECLIA)
	11. Estradiol (E2)	Electrochemiluminescense (ECLIA)
	12. Testosterone	Electrochemiluminescense (ECLIA)
	13. Prolactin (PRL)	Electrochemiluminescense (ECLIA)
	14. Cortisol	Electrochemiluminescense (ECLIA)
	15. Dehydroepiandrosterone sulfate (DHEA-S)	Electrochemiluminescense (ECLIA)
	16. Vitamin D (25-OH)	Electrochemiluminescense (ECLIA)
	17. Vitamin B12	Electrochemiluminescense (ECLIA)
	18. Folate	Electrochemiluminescense (ECLIA)
	19. Ferritin	Electrochemiluminescense (ECLIA)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Blood serum (continued)	20. Insulin	Electrochemiluminescense (ECLIA)
	21. Carcinoembryonic antigen (CEA)	Electrochemiluminescense (ECLIA)
	22. Cancer antigen CA 125	Electrochemiluminescense (ECLIA)
	23. Cancer antigen CA 15.3	Electrochemiluminescense (ECLIA)
	24. Cancer antigen CA 19.9	Electrochemiluminescense (ECLIA)
	25. Prostate Specific Antigen (PSA)	Electrochemiluminescense (ECLIA)
	26. Free Prostate Specific Antigen (Free PSA)	Electrochemiluminescense (ECLIA)
	27. Anti-Mullerian Hormone (AMH)	Electrochemiluminescense (ECLIA)
	28. Procalsitonin (PCT)	Electrochemiluminescense (ECLIA)
	29. Cancer antigen CA 72.4	Electrochemiluminescense (ECLIA)
8. Blood serum	**Determination of 2 parameters**	**Automated analyzer, MAGLUMI 800, SNIBE * О.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. 17-OH Progesterone	Chemiluminescense (CLIA)
	2. Free Testosterone	Chemiluminescense (CLIA)
9. Blood serum	**Determination of 16 parameters**	**Automated Immunochemical analyzer ATELLICA IM (1), SIEMENS * О.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Toxoplasma Gondii IgG antibodies (TOXO IgG)	Chemiluminescense (CLIA)
	2. Toxoplasma Gondii IgM antibodies (TOXO IgM)	Chemiluminescense (CLIA)
	3. Rubella virus IgG antibodies (Rubella IgG)	Chemiluminescense (CLIA)
	4. Rubella virus IgM antibodies (Rubella IgM)	Chemiluminescense (CLIA)
	5. Cytomegalovirus IgG antibodies (CMV IgG)	Chemiluminescense (CLIA)
	6. Cytomegalovirus IgM antibodies (CMV IgM)	Chemiluminescense (CLIA)
	7. Hepatitis B surface antigen (HBsAg)	Chemiluminescense (CLIA)
	8. Hepatitis B Virus Core Total antibodies (Anti-HBc total /HBcAb total)	Chemiluminescense (CLIA)
	9. Hepatitis B Virus Core IgM antibodies (Anti-HBc-IgM/HBcAb IgM)	Chemiluminescense (CLIA)
	10. Hepatitis B virus e antigen (HBeAg)	Chemiluminescense (CLIA)
	11. Hepatitis C virus antibodies (anti-HCV)	Chemiluminescense (CLIA)

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	12. HIV Ag/Ab Combo (HIV p24 Antigen and Antibodies to Human Immunodeficiency Virus Type 1, Including Group O (HIV-1 + "O") and/or Type 2 (HIV-2))	Chemiluminescense (CLIA)
	13. Hepatitis B virus Surface antibodies (anti-HBs/HBsAb)	Chemiluminescense (CLIA)
	14. Hepatitis B virus e antibodies (anti-HBe/HBeAb)	Chemiluminescense (CLIA)
	15. Hepatitis A Virus total antibody (Anti-HAV total)	Chemiluminescense (CLIA)
	16. Hepatitis A Virus IgM antibody (Anti-HAV IgM)	Chemiluminescense (CLIA)
10. Blood serum	**Determination of 2 parameters**	**Automated Immunochemical analyzer IMMULITE XPi (2), SIEMENS * O.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Epstein Barr IgG antibodies	Chemiluminescense (CLIA)
	2. Epstein Barr IgM antibodies	Chemiluminescense (CLIA)
11. Blood serum	**Determination of 6 parameters**	**Automated Immunochemical analyzer COBAS e411, ROCHE * O.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Hepatitis B surface antigen (HBsAg)	Electrochemiluminescense (ECLIA)
	2. Hepatitis B Virus Core Total antibodies (Anti-HBc total /HBcAb total)	Electrochemiluminescense (ECLIA)
	3. Hepatitis B virus Surface antibodies (anti-HBs/HBsAb)	Electrochemiluminescense (ECLIA)
	4. Hepatitis B virus e antibodies (anti-HBe/HBeAb)	Electrochemiluminescense (ECLIA)
	5. Hepatitis C virus antibodies (anti-HCV)	Electrochemiluminescense (ECLIA)
	6. HIV combi (HIV-1 p24 antigen and antibodies to HIV-1 (HIV-1 groups M and O) and HIV-2)	Electrochemiluminescense (ECLIA)
12. Blood serum	**Determination of 4 parameters**	**Automated ELISA analyzer ANALYZER I, EUROIMMUN * O.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Herpes I IgG antibodies (HSV I IgG)	ELISA
	2. Herpes II IgG antibodies (HSV II IgG)	ELISA
	3. Helicobacter pylori IgA antibodies	ELISA
	4. Helicobacter pylori IgG antibodies	ELISA

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
13. Blood serum	**Determination of 7 parameters**	**Immunofluorescence Microscope, BX 40, OLYMPUS* O.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Antinuclear antibodies (ANA)	Indirect Immunofuorescence on HEP 2 substrate
	2. Anti-mitochondrial antibodies (AMA)	Indirect Immunofluorescence on Rat Liver/ Kidney/ with Medulla/ Stomach substrate
	3. Anti-smooth muscle antibodies (ASMA)	Indirect Immunofluorescence on Rat Liver/ Kidney/ with Medulla/ Stomach substrate
	4. Anti- parietal cell antibodies (APCA)	Indirect Immunofluorescence on Rat Liver/ Kidney/ with Medulla/ Stomach substrate
	5. P-ANCA	Indirect immunofluorescence on human neutrophil substrate, with ethanol fixative
	6. C-ANCA	Indirect immunofluorescence on human neutrophil substrate, with ethanol fixative
	7. IgG Antibodies to double-stranded native DNA (ANTI-ds DNA)	Indirect Immunofluorescence on Crithidia luciliae substrate
14. Blood serum	**Determination of 17 parameters**	**Automated ELISA analyzer ANALYZER I, EUROIMMUN * O.650-8/14/16-10-2023 П.650-1/12/04-02-2025**
	1. Gliadin Antibodies IgA	ELISA
	2. Gliadin Antibodies IgG	ELISA
	3. Transglutaminase tissue Antibodies IgA	ELISA
	4. Cardiolipin Antibodies IgG	ELISA
	5. Cardiolipin Antibodies IgM	ELISA
	6. Beta-2 GPI autoantibodies IgG	ELISA
	7. Beta-2 GPI autoantibodies IgM	ELISA
	8. Anti-ENA screen (Sm+RNP+SSA+ SSB+Jo1+Scl70)	ELISA
	9. Anti-Smith	ELISA
	10. Anti-RNP	ELISA
	11. Anti-RO/ SS-A	ELISA
	12. Anti-LA/ SS-B	ELISA
	13. Anti-Jo-1	ELISA
	14. Anti-Scl 70	ELISA
	15. Anticentromere antibodies (ACA)	ELISA
	16. Anti-MPO	ELISA
	17. Anti-PR3	ELISA

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
1. Urine	**Determination of 1 parameter**	**Automated Immunochemical analyzer ATELLICA IM (1), SIEMENS* Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Cortisol	Chemiluminescense (CLIA)
1. Blood plasma (EDTA)	**Determination of 1 parameter**	**Automated Immunochemical analyzer ATELLICA IM (1), SIEMENS* Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Parathyroid Hormone (PTH)	Chemiluminescense (CLIA)
2. Blood plasma (EDTA)	**Determination of 1 parameter**	**Automated Immunochemical analyzer COBAS 6000, ROCHE * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Parathyroid Hormone (PTH)	Electrochemiluminescense (ECLIA)
3. Blood plasma (EDTA)	**Determination of 1 parameter**	**Automated Immunochemical analyzer IMMULITE XPi (2), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Adrenocorticotropic Hormone (ACTH)	Chemiluminescense (CLIA)
Hematological Tests		
1. Whole Blood (EDTA)	**Determination of 17 parameters**	**Automated Hematology analyzers ADVIA 2120i (ADV1) & (ADV2), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Hemoglobin	Chromatometric Reaction (ICSH modified)
	2. Red Blood Cells (RBC)	Volume analysis combined with flow cytometry
	3. White Blood Cells (WBC)	Volume analysis combined with flow cytometry
	4. Platelets (PLTs)	Volume analysis combined with flow cytometry
	5. Hematocrit (HCT)	Calculated Based on Specific Equation
	6. Mean Red Cell Volume (MCV)	Volume analysis with flow cytometry
	7. Mean Cell Hemoglobin (MCH)	Calculated Based on Specific Equation
	8. Mean corpuscular hemoglobin concentration (MCHC)	Calculated Based on Specific Equation
	9. Red Cell Dist.Width -CV	Calculated Based on Specific Equation
	10. Plateletcrit	Calculated Based on Specific Equation
	11. Mean Platelet Volume (MPV)	Volume analysis with flow cytometry
	12. Neutrophil (number and %)	Staining combined with flow cytometry
	13. Lymphocyte (number and %)	Staining combined with flow cytometry

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
	14. Monocyte (number and %)	Staining combined with flow cytometry
	15. Eosinophil (number and %)	Staining combined with flow cytometry
	16. Basophil (number and %)	Staining combined with flow cytometry
	17. Atypical- Large unstained cells (number and %)	Staining combined with flow cytometry
2. Whole Blood (EDTA)	**Determination of 2 parameters**	**Automated Hematology analyzer ADVIA 2120i (ADV1), SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Reticulocyte Count (%)	Staining combined with flow cytometry
	2. Reticulocyte Hemoglobin Concentration (CHr)	Staining combined with flow cytometry
3. Whole Blood (EDTA)	**Determination of 4 parameters**	**Automated Analyzer HPLC, VARIANT II, BIORAD * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Screening and Evaluation of Hemoglobinopathies	HPLC – High Performance Liquid Chromatography
	2. Hemoglobin A2 (HbA2)	HPLC – High Performance Liquid Chromatography
	3. Hemoglobin F (HbF)	HPLC – High Performance Liquid Chromatography
	4. Hemoglobin S (HbS)	HPLC – High Performance Liquid Chromatography
4. Whole blood (EDTA)	**Determination of 1 parameter**	**Automated Analyzer HPLC, D100, BIORAD * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Glycated hemoglobin A1c (HbA1c)	HPLC – High Performance Liquid Chromatography
5. Whole blood (EDTA)	**Determination of 1 parameter**	**ID*MicroTyping System gel test, DIAMED* Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Direct Coombs Test DAT (screening)	Gel Agglutination
1. Blood serum	**Determination of 1 parameter**	**ID*MicroTyping System gel test, DIAMED* Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Indirect Coombs Test IAT (screening)	Gel Agglutination

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
1. Blood plasma (sodium citrate)	**Determination of 9 parameters**	**Automated Coagulation analyzer BCS XP, SIEMENS * Ο.650-8/14/16-10-2023 Π.650-1/12/04-02-2025**
	1. Fibrinogen (FIB)	Clotting
	2. Activated Partial Thromboplastin time (APTT)	Clotting
	3. Prothrombin time (PT sec)	Clotting
	4. Prothrombin time (INR)	Calculated
	5. D-DIMERS	Immunoturbidimetric
	6. Anti-XA	Chromatometric Reaction
	7. Antithrombin III	Chromatometric Reaction
	8. Protein C (Activity)	Chromatometric Reaction
	9. Free Protein S Antigen (Activity)	Immunoturbidimetric
Molecular Genetics		
1. Whole blood (EDTA)	**Determination of 2 parameters**	**Real-Time PCR Rotor-Gene® Q, QIAGEN Ο.650-8/14/16-10-2023 Ο.650-11/12/16-10-2023 Π.650-2/10/19-02-2021**
	1. Gene *MTHFR* A1298C Mutation	Real-Time PCR with geneMAP* (CE-IVD) kit
	2. Gene *MTHFR* C677T Mutation	Real-Time PCR with geneMAP* (CE-IVD) kit
2. Whole blood (EDTA)	**Determination of 1 parameter**	**PCR SimpliAmp™ Thermal Cycler, Applied Biosystems™ Ο.650-8/14/16-10-2023 Ο.650-11/12/16-10-2023 Π.650-2/10/19-02-2021**
	1. HLA-B*27 Serotype	SSP-PCR with OLERUP * (CE-IVD) kit
3. Whole blood (EDTA)	**Determination of 1 parameter**	**Real-Time PCR Rotor-Gene® Q, QIAGEN Ο.650-8/14/16-10-2023 Ο.650-11/12/16-10-2023 Π.650-2/10/19-02-2021**
	1. Gene *CFTR* ΔF508 Mutation	Real-Time PCR with Genvinset * (CE-IVD) kit
4. Whole blood (EDTA)	**Determination of 1 parameter**	**PCR SimpliAmp™ Thermal Cycler, Applied Biosystems™, Real-Time PCR Rotor-Gene® Q, QIAGEN, iSEQ 100 NGS System, ILLUMINA Ο.650-8/14/16-10-2023 Ο.650-11/12/16-10-2023 Π.650-2/10/19-02-2021**
	1. BRCA1 & BRCA2 sequence variants detection	Next Generation Sequencing with Devyser* (CE-IVD) kit

Materials / Products tested	Types of test / Properties measured	Applied methods / Techniques used
Molecular Biology		
1. Blood plasma (EDTA)	**Determination of 1 parameter**	**Real-Time PCR Rotor-Gene® Q, QIAGEN** **Ο.650-8/14/16-10-2023** **Ο.650-11/12/16-10-2023** **Π.650-2/10/19-02-2021**
	1. Hepatitis B Virus DNA (HBV-DNA) Quantification	Real-Time PCR with Sacace BIOTECHNOLOGIES * (CE-IVD) kit
2. Nasopharyngeal smear	**Determination of 1 parameter**	**Real-Time PCR QIAquant®96, QIAGEN** **&** **Bioperfectus Nucleic Acid Extraction Rapid Kit** **Ο.650-8/14/16-10-2023** **Ο.650-11/12/16-10-2023** **Π.650-2/10/19-02-2021**
	1. SARS-CoV-2 RNA qualitative detection. *ORF1ab, E* & *N* genes.	Real-Time PCR with Bioperfectus* (CE-IVD) kit

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

Site of assessment: **Laboratory permanent premises, 34th Kosti Palama St. & 74th Tsounta St., GR-143 43, Nea Chalkidona, Attica, Greece.**

Primary sample collection site: **34th Kosti Palama St. & 74th Tsounta St., GR-143 43, Nea Chalkidona, Attica, Greece.**

Approved signatories: **A. Kotsigianni, A. Lentari, M. Sotiropoulou.**
This scope of Accreditation replaces the previous one dated 24.10.2024.
The Accreditation Certificate No. **994**-5, to ELOT EN ISO 15189:2022, is valid until 28.07.2028.

Athens, 2nd of July 2025

Konstantinou Evangelos Apostolos
CEO of ESYD