# Hellenic Accreditation System

Annex G1/3 to the Certificate No. **1339**-2

# SCOPE of ACCREDITATION

of the

Clinical Laboratory

## “ARGYROPOULOY ANASTASIA – BIOMETRIKA”

| Tested materials / products | Types of test / Properties to be measured | Applied Standards / Techniques to be used |
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| **Biochemical Tests** | | |
| 1. Blood serum | **Determination of 33 parameters** | **Automated analyzer INTEGRA 400PLUS ROCHE DIRECTIVE E-29 ED.1 03/03/2023** |
| | UREA - UREA | KINETIC TEST WITH UREASE AND GLUTAMATE DEHYDROGENASE |
| | CHOL -CHOLESTEROL | COLORIMETRIC METHOD |
| | CREA - CREATININE | COLORIMETRIC METHOD |
| | GLUC - GLUCOSE | ENZYMATIC REFERENCE METHOD WITH HEXOKINASE |
| | TRIG - TRIGLYCERIDES | COLORIMETRIC METHOD |
| | HDL – HDL CHOLESTEROL | COLOROMETRIC METHOD |
| | AST/SGOT - ALANINE AMINOTRANSFERASE | METHOD ACCORDING TO IFCC, BUT WITHOUT PYRIDOXAL-5'-PHOSPHATE |
| | ALT/SGPT - ALANINE AMINOTRANSFERASE | METHOD ACCORDING TO IFCC, BUT WITHOUT PYRIDOXAL-5'-PHOSPHATE |
| | γ-GT – GAMMA-GLUTAMYLTRANSFERASE | ENZYMATIC COLORIMETRIC ASSAY |
| | DBIL - DIRECT BILIRUBIN | COLORIMETRIC DIAZO METHOD |
| | ALB - ALBUMIN | COLORIMETRIC ASSAY WITH ENDPOINT METHOD |
| | NA - SODIUM | POTENSIOMETRY |
| | CRP-C-REACTIVE PROTEIN | PARTICLE-ENHANCED IMMUNOTURBIDIMETRIC ASSAY |
| | LDH – LACTATE DEHYDROGENASE | UV-TEST |
| | CPK - CREATINE KINASE | UV-TEST |
| | ALP - ALKALINE PHOSPHATASE | COLORIMETRIC ASSAY IN ACCORDANCE WITH A STANDARDIZED METHOD |
| | TBIL- TOTAL BILIRUBIN | COLORIMETRIC DIAZO METHOD |
| | AMYL -AMYLASE | ENZYMATIC COLORIMETRIC ASSAY ACC. TO IFCC |
| | FE - IRON | FERROZINE METHOD |
| | K - POTASSIUM | POTENSIOMETRY |
| | P -PHOSPHATE | ENDPOINT METHOD WITH SAMPLE BLANKING |

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| Blood serum (continued) | TP - TOTAL PROTEIN | COLORIMETRIC ASSAY |
| | CA - CALCIUM | PHOTOMETRIC METHOD WITH NM-BAPTA |
| | MG - MAGNESIUM | COLORIMETRIC ENDPOINT METHOD |
| | UA- URIC ACID | ENZYMATIC COLORIMETRIC TEST |
| | CK-MB (activity) | ENZYMATIC COLORIMETRIC ASSAY ACC. TO IFCC |
| | GLUCOSE TOLERANCE TEST, OGTT | ENZYMATIC REFERENCE METHOD WITH HEXOKINASE: GLUC 0′, GLUC 30′, GLUC 60′, GLUC 90’, GLUC 120′, GLUC 180′ |
| | A/G RATIO | CALCULATION METHOD (ALBUMIN/GLOBULIN) |
| | LDL | CALCULATION METHOD : CHOLESTEROL - [(TRIGLYCERIDES /5) + HDL CHOLESTEROL |
| | VLDL | CALCULATION METHOD : TRIGLYCERIDES /5 |
| | TOTAL LIPIDS | CALCULATION METHOD : (CHOLESTEROL + TRIGLYCERIDES ) * 2,08 |
| | GLOBULINS | CALCULATION METHOD : TOTAL PROTEIN - ALBUMIN |
| | ATHEROGENIC INDEX | CALCULATION METHOD : CHOLESTEROL / HDL CHOLESTEROL |
| **Immunochemical testing** | | |
| 2. Blood serum | **Determination of 34 parameters** | **COBAS E411 ROCHE DIRECTIVE E-29 ED.1 03/03/2023** |
| | 1. TSH - THYROID-STIMULATING HORMONE | Electrochemiluminescence (ECLIA) |
| | 2. CEA - CARCINOEMBRYONIC ANTIGEN | |
| | 3. B-HCG - HUMAN CHORIONIC GONADOTROPIN | |
| | 4. INS - INSULIN | |
| | 5. PTH - PARATHYROID HORMONE | |
| | 6. PRL- PROLACTIN | |
| | 7. VIT B12 - VITAMIN B12 | |
| | 8. FERRITIN | |
| | 9. CA 15-3 – CARBOHYDRATE ANTIGEN 15-3 | |
| | 10. T4 – THYROXINE | |
| | 11. TOTAL CALCITONIN | |
| | 12. T3 – TRIIODOTHYRONINE (3,5,3'-TRIIODOTHYRONINE) | |
| | 13. TOTAL FOLATE | |
| | 14. TG -THYROGLOBULIN | |
| | 15. PROGESTERONE - PROGESTERONE | |
| | 16. CORTISOL | |
| | 17. E2 - ESTRADIOL | |
| | 18. TOTAL 25-HYDROXYVITAMIN D | |
| | 19. TOTAL PSA- PROSTATE-SPECIFIC ANTIGEN | |
| | 20. TESTO - TESTOSTERONE | |
| | 21. FT3-FREE TRIIODOTHYRONINE | Electrochemiluminescence (ECLIA |
| | 22. FT4 -FREE THYROXINE | Electrochemiluminescence (ECLIA |
| | 23. ANTI - TG -ANTIBODIES AGAINST THYREOGLOBULIN | Electrochemiluminescence (ECLIA |

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| Blood serum (continued) | 24. ANTI -TPO – ANTIBODIES AGAINST THYROID PEROXIDASE | Electrochemiluminescence (ECLIA |
| | 25. FREE PSA -FREE PROSTATIC ANTIGENE | Electrochemiluminescence (ECLIA |
| | 26. RATIO: FREE PSA / TOTAL PSA | CALCULATION METHOD: (FREE PSA / TOTAL PSA) X 100 |
| | 27. HOMA-IR | CALCULATION METHOD: (INSULIN X GLUCOSE) / 405 |
| | **Determination of 5 parameters** | **Automated analyzer SNIBE MAGLUMI 800 DIRECTIVE E-29 ED.1 03/03/2023** |
| | 1. AFP – A- PHETOPROTEIN | Electrochemiluminescence (ECLIA) |
| | 2. FSH –HUMAN FOLLICLE STIMULATIGHORMONE | |
| | 3. LH – LUTEINIZING HORMONE | |
| | 4. CA 125 – CARBOHYDRATE ANTIGEN 125 | |
| | 5. CA 19-9 – CARBOHYDRATE ANTIGEN 19-9 | |
| **Hematological Testing** | | |
| 3. Whole Blood (EDTA) | **Determination of 11 parameters** | **YUMIZEN H550** |
| | 1. HEMATOCRIT -HCT | Calculation method |
| | 2. HEMOGLOBIN, TOTAL-HB | Colorimetric method |
| | 3. MEAN CORPUSCULAR HEMOGLOBIN-MCH | Calculation method |
| | 4. MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION-MCHC | Calculation method |
| | 5. MEAN CORPUSCULAR VOLUME-MCV | Electrical conductivity |
| | 6. MEAN PLATELET VOLUME-MPV | Calculation method |
| | 7. PLATELETES-PLT | Electrical conductivity |
| | 8. RBC DISTRIBUTION WIDTH-RDW | Calculation method |
| | 9. RDW-SD | Calculation method |
| | 10. RED BLOOD CELLS-RBC | Electrical conductivity |
| | 11. WHITE BLOOD CELL-WBC | Electrical conductivity |
| Blood plasma (sodium citrate) | **Determination of 4 parameters** | **Automated Coagulation analyzer SYSMEX CA 600 SERIES** |
| | 1. PROTHROMBIN TIME (PT)INR | Photo-optical clot detection method |
| | 2. PT (PROTHROMBINTIME) | |
| | 3. (ACTIVATED PARTIAL THROMBOPLASTIN TIME (APTT)) | |
| | 4. FIBRINOGEN | |

Site of assessment: **Laboratory Permanent premises 28ης October 9, Argos.**

Approved signatories: **Argyropoulou Anastasia.**

Primary Sample Collection Site: **28ης October 9, Argos.**

This scope of Accreditation replaces the previous one dated 04.03.2025.
The Accreditation Certificate No. **1339-**2, to ELOT EN ISO 15189:2022, is valid until 21.06.2028.

Athens, 11th of March 2026

Konstantinou Evangelos Apostolos
*CEO of ESYD*