# Hellenic Accreditation System

Annex G1/10 to the Certificate No.**940**-5

# SCOPE of ACCREDITATION

of the

Clinical Laboratory

of

## EUROMEDICA GENERAL CLINIC OF THESSALONIKI

| Materials / Products tested | Types of test / Properties measured | Applied methods / Techniques used |
|---|---|---|
| **Biochemical Tests** | | |
| | **Determination of 26 parameters** | **Automated biochemical analyzer ALINITY 1*** |
| Blood serum | 1. Glucose (GLU) | Enzymatic (Exokinase G-6-PDH)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 2. Triglycerides (TGL) | Glycerol phosphate oxidase<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 3. Total Cholesterol (CHOL) | Enzymatic<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 4. Uric acid (URIC) | Enzymatic chromatometric reaction uricase-peroxidase<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 5. Urea (UREA) | Enzymatic photometric reaction<br>Urease/GLDH<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 6. Creatinine (CREA) | JAFFE METHOD<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 7. Total Bilirubin (TBIL) | Diazonium salt<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |

| Materials / Products tested | Types of test / Properties measured | Applied methods / Techniques used |
|---|---|---|
| Blood serum | 8. Calcium (Ca) | Arsenazo III<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 9. Phosphorus (PHOS) | Photometric method endpoint Phosphomolybdade<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 10. Direct Bilirubin (DBIL) | Diazonium salt<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 11. Total protein (TP) | Biuretic photometric method<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 12. Albumin (ALB) | Colorimetric (bromocresol green)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 13. Potassium (K) | Potentiometric<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 14. Sodium (Na) | Potentiometric<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 15. Serum glutamic-oxaloacetic transaminase (SGOT/ AST) | Enzymatic NADH without P-5′-P<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 16. Serum glutamic-pyruvic transaminase (SGPT/ ALT) | Enzymatic NADH without P-5′-P<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 17. g-glutamyltransferase (GGT) | L-glutamyl-3-carboxy-4-nitroanilide substrate<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 18. Alkaline phosphatase (ALP) | Paranitrophenyl/phosphate<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 19. Creatinine kinase (CK) | N-acetyl-L-cysteine (NAC)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 20. Lactate dehydrogenase (LDH) | IFCC-Conversion of lactate to pyruvate-<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 21. Amylase (AMY) | Enzymatic/ Colorimetric<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |

| Materials / Products tested | Types of test / Properties measured | Applied methods / Techniques used |
|---|---|---|
| Blood serum | 22.Magnesium (Mg) | Enzymatic<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 23. C-reactive protein high sensitive (hsCRP) | Highly sensitive turbidimetry/ immunoturbidemetry<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 24. CK-MB activity | IFCC method– Immunoinhibition<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 25. HDL Cholesterol (HDL) | Enzymatic (ASD-Accelerator selective detergent)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 26. LDL Cholesterol (LDL) | Direct measurement with detergent reagent (Document number GCT_F1312/ version 1st / 14.11.2024) |
| | **Determination of 1 parameter** | **Automated biochemical analyzer ALINITY 2*** |
| Blood serum | 1. Iron (Fe) | Photometric method Ferene<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| **Immunochemical Tests** | | |
| | **Determination of 9 parameters** | **Automated analyzer ALINITY 1*** |
| Blood serum | 1.Ferritin (FER) | Chemiluminescent microparticle immunoassay (CMIA)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 2. α-Fetoprotein (AFP) | |
| Blood serum | 3.Carcinoembryonic antigen (CEA) | |
| Blood serum | 4. Cancer antigen CA 125 | |
| Blood serum | 5. Cancer antigen CA 15-3 | |
| Blood serum | 6. Cancer antigen CA 19-9 | |
| Blood serum | 7. Vitamin B12 (B12) | |
| Blood serum | 8.Folic acid (FOL) | |
| Blood serum | 9.Tropopine high sensitive I (hs-TnI) | |
| | **Determination of 16 parameters** | **Automated immunoassay analyzer ALINITY 2 *** |
| Blood serum | 1.Prolactin (PRL) | Chemiluminescent microparticle immunoassay (CMIA)<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood serum | 2.Progesterone (PRG) | |
| Blood serum | 3.Follicle Stimulating Hormone (FSH) | |
| Blood serum | 4.Luteinizing Hormone (LH) | |
| Blood serum | 5.Estradiol (E2) | |

| Materials / Products tested | Types of test / Properties measured | Applied methods / Techniques used |
|---|---|---|
| Blood serum | 6.Testosterone (TESTO) | |
| Blood serum | 7.Anti-thyroid peroxidase antibodies (ANTI-TPO) | |
| Blood serum | 8.Thyroglobulin antibodies(ANTI-TG) | |
| Blood serum | 9. β-Human Chorionic Gonadotropin (β-HCG) | |
| Blood serum | 10. Prostate Specific Antigen (PSA) | |
| Blood serum | 11. Free Prostate Specific Antigen (Free-PSA) | |
| Blood serum | 12. Thyrotropin Hormone (TSH) | |
| Blood serum | 13. Free Thyroxin (Free-T4) | |
| Blood serum | 14. Thyroxin total (T4) | |
| Blood serum | 15. Free Triidothyronine (Free T3) | |
| Blood serum | 16. Triidothyronine total (T3) | |
| **Hematological Tests** | | |
| | **Determination of 1 parameter** | **Automated chemistry analyzer ALINITY 2*** |
| Total blood (EDTA) | 1. Determination of glycated hemoglobin A1c ( $HbA_{1C}$ ) | Enzymatic method (Document number GCT_F1312/ version 1st / 14.11.2024) |
| | **Determination of 8 parameters** | **Automated hematology analyzers BC 6200 1 & 2*** |
| Total blood (EDTA) | 1. White Blood Cells (WBC) | Cytometry flow with 'laser'<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 2. Red Blood Cells (RBC) | Electrical impedance<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 3. Hemoglobin (HGB) | Photometric measurement<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 4. Hematocrit (HCT) | Calculating<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 5. Mean Cell Volume (MCV) | Calculating<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 6. Mean Corpuscular Haemoglobin (MCH) | Calculating<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |

| Materials / Products tested | Types of test / Properties measured | Applied methods / Techniques used |
|---|---|---|
| Total blood (EDTA) | 7. Mean Corpuscular Haemoglobin Concentration (MCHC) | Calculating<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Total blood (EDTA) | 8. Platelets (PLTs) | Electrical impedance<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| **Coagulation tests** | | |
| | **Determination of 4 parameters** | **Coagulation analyzer Siemens SYSMEX CS-2500*** |
| Blood plasma (Citrate) | 1. Prothrombin time | Coagulation<br>(Document number GCT_F1312/ version 1st / 14.11.2024) |
| Blood plasma (Citrate) | 2: Fibrinogen(FIB) | |
| Blood plasma (Citrate) | 3. Partial thromboplastin time (APTT) | |
| Blood plasma (Citrate) | 4. INR | |

**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: **Permanent laboratory facilities, 11 M. Kalas str. and 2 Gravias str., Thessaloniki, Greece.**
Primary sample collection site: **11 M. Kalas str. and 2 Gravias str., Thessaloniki, Greece.**
Approved signatories: **Malisiovas Nikolaos, Mpakali Eleni, Fiontorova Maria, Kyriazis George, Vaxtsevanou Theodora.**
This scope of Accreditation replaces the previous one dated 11.04.2023.
The Accreditation Certificate No. **940**-5, to ELOT EN ISO 15189:2022, is valid until 03.11.2027.

Athens, 26th March 2025

Konstantinou Evangelos Apostolos
*CEO of ESYD*