Hellenic Accreditation System

Annex **G1/A23** to the Certificate No. **356**-8

SCOPE of ACCREDITATION

of the

Clinical Laboratory

of

BIOIATRIKI S.A. (BIOMEDICINE)

(Athens)

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Biochemical Tests		
Blood serum	**Determination of 46 parameters**	**Automated biochemical analyzers ALINITYc* Ac03974, Ac04093, Ac04094, Ac04095, Ac04096, Ac04097, Ac04098, Ac04099, Ac04100, Ac04101, Abbott** MA-001/ B.0 / 19-11-2024
	1. Glucose	Enzymatic photometric
	2. Triglycerides	Enzymatic photometric
	3. Total Cholesterol	Enzymatic photometric
	4. Uric acid	Enzymatic photometric
	5. Urea (blood, urine 24h)	Enzymatic kinetic
	6. Creatinine	Enzymatic photometric
	7. Total Bilirubin	Colorimetric
	8. Calcium	Colorimetric
	9. Phosphorus	Colorimetric
	10. Iron	Colorimetric
	11. Total Protein	Colorimetric
	12. Albumin	Colorimetric
	13. Potassium	Indirect Potentiometry ISE
	14. Sodium	Indirect Potentiometry ISE

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)2	15. Serum glutamic-oxaloacetic transaminase (SGOT)	Enzymatic photometric
	16. Serum glutamic-pyruvic transaminase (SGPT)	Enzymatic photometric
	17. Gamma-glutamyl trasferase (γ-GT)	Enzymatic photometric
	18. Alkaline phosphatase (ALP)	Colorimetric
	19. Creatinine kinase (CK)	Kinetic
	20. Lactate dehydrogenase (LDH)	Kinetic
	21. Amylase	Enzymatic
	22. Cholesterol HDL	Enzymatic colorimetric
	23. Cholesterol LDL	Enzymatic colorimetric
	24. Bilirubin Direct	Colorimetric
	25. Very Low Density Lipoptrotein (VLDL)	Calculated
	26. Magnesium	Enzymatic
	27. Acid Phosphatase	Colorimetric
	28. Total Iron-binding Capacity (TIBC)	Calculated
	29. Apolipoprotein A1 (APO A1)	Immunoturbidimetric method
	30. Apolipoprotein B (APO B)	Immunoturbidimetric method
	31. Lipoprotein-a (LP-a)	Immunoturbidimetric method
	32. Cholinesterase	Colorimetric
	33. Complement C3	Immunoturbidimetric method
	34. Complement C4	Immunoturbidimetric method
	35. Iron Transferrin (TRF)	Immunoturbidimetric method
	36. Anti-streptolysin O (ASTO)	Immunoturbidimetric method
	37. C-reactive protein (CRP)	Immunoturbidimetric method
	38. Immunoglobulin G (IgG)	Immunoturbidimetric method
	39. Immunoglobulin M (IgM)	Immunoturbidimetric method
	40. Immunoglobulin A (IgA)	Immunoturbidimetric method
	41. Immunoglobulin E (IgE)	Immunoturbidimetric method
	42. Chloride (Cl)	Indirect Potentiometry ISE
	43. Rheumatoid factor Ra-test	Immunoturbidimetric method
	44. Glycosylated Hemoglobin A1c determination (HbA1c)	Enzymatic
	45. Lipase	Enzymatic colorimetric
	46. Bicarbonates	Colorimetric
	Determination of 1 parameter	**Alinity C Ac4096** MA-001/ B.0 / 19-11-2024

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	Lactate	Colorimetric
	Determination of 2 parameters	**Electrolyte Analyzer AVL 9181*** MA-063/A.1/20-03-2023
	1. Ionized calcium	Direct Potentiometry
	2. Lithium	Direct Potentiometry
	Determination of 1 parameter	**Osmometer KNAUER 7400S** MA-063/A.1/20-03-2023
Urine	Osmolality	Freezing point
	Determination of 5 parameters	
Blood serum	1. Serum Protein Electrophoresis (1) A1 globulin (2) A2 globulin (3) Beta globulins (4) Gamma globulins (5) Albumin	**Capillary Electrophoresis Capillarys 2 Flex Piercing Sebia** MA-004/A.6/20-03-2023
	Determination of 1 parameter	
	2. Serum Protein Immunofixation Immunosubtraction	**Immunosubtraction Capillarys 3 Tera, Capillarys 3 Octa** **Agarose Gel SAS-3 (4) & SAS-4 (2)** MA-004/A.6/20-03-2023
EDTA	Determination of 1 parameter	**Capillarys 3 Octa (2)** (A 06444 & A 06451) **MA-066/ A.0/ 11-12-2024 – *New Test***
	Hemoglobin Electrophoresis, HbA2	
Toxicological Tests		
Urine	**Determination of 9 parameters**	**Automated biochemical analyzer ALINITYc* Ac04100, Abbott** MA-001/ B.0 / 19-11-2024
	1. Amphetamines	Enzyme Immunoassay (EIA)
	2. Barbiturates	
	3. Benzodiapines	
	4. Cannabis	
	5. Cocaine	
	6. Methadone	
	7. Opiates	
	8. Phenyciclidine	
	9. Propoxyphene	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
HematologicalTests		
Whole blood (EDTA)	**Full Blood count Determination of 8 parameters**	**Automated analyzers: ALINITY HQ 00579, 00580, 00184, 00185, 00674, 00675, 00706, 00707** MA-006/A.9/ 11-12-2024
	1. White Blood Cells (WBC)	Fluorescent light scatter flow cytometry (MAPSS technology laser)
	2. Red Blood Cells (RBC)	Light scatter flow cytometry (MAPSS technology laser)
	3. Hemoglobin (HGB)	Absorption Spectrophotometry
	4. Hematocrit (HCT)	Calculated
	5. MeanCellVolume (MCV)	Light scatter flow cytometry (MAPSS technology laser)
	6. Mean Cell Hemoglobin (MCH)	Calculated
	7. Mean Corpuscular Hemoglobin Concentration (MCHC)	Calculated
	8. Platelets (PLTs)	Light scatter flow cytometry Flow Cytometry of optical scatter (MAPSS technology laser)
	White Blood Cell Differential Determination of 5 parameters	**Automated analyzers: ALINITY HQ 00184, 00185, 00579, 00580, 00674, 00675, 00706, 00707** MA-006/A.9/ 11-12-2024
	1.Neutrophil (number and %)	Light scatter flow cytometry (MAPSS technology laser)
	2.Lymphocyte (number and %)	
	3.Monocyte (number and %)	
	4.Eosinophil (number and %)	
	5.Basophil (number and %)	
Whole blood (EDTA)	**Determination of 1 parameter**	**Automated analyzers: ALINITY HQ 00184, 00185, 00579, 00580, 00674, 00675, 00706, 00707*** MA-006/A.9/ 11-12-2024
	Reticulocytes (RET)	Fluorescent light scatter flow cytometry (MAPSS technology laser)
Coagulation Tests		
Bloodplasma (Citrate)	**Determination of 11 Parameters**	**Automated analyzers STAGO STARMAX3 -STA 1 & STA 2** MA-001/A.9/28-03-2023, MA-007/A.5/01-03-2023 MA-001/B.0/ 19-11-2024, MA-007/A.6/ 11-12-2024

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	1.Prothrombin time	Coagulation Method
	2.Fibrinogen activity (FIB)	Coagulation Method
	3.Activated partial prothrombine time (APPT)	Coagulation Method
	4.Protein-S activity	Coagulation Method
	5.Free Protein S Antigen	Immunoturbidimetric method
	6.Von Willebrand (vWF) Factor Activity	Immunoturbidimetric method
	7.D-Dimers	Immunoturbidimetric method
	8.Antithrombin III Activity	Chromogenic
	9.Protein –C Activity	Chromogenic
	10. Factor Von Willebrand Ag	Immunoturbidimetric method
	11. Factor FVIII	Coagulation Method
Immunological Tests		
Blood serum	**Monitoring of 6 therapeutic drug levels**	**Automated biochemical analyzers ALINITY c* Ac04096** MA-001/A.9/28-03-2023 MA-001/B.0/ 19-11-2024
	1. Digoxin	Immunoenzymatic
	2. Carbamazepine	Particle-enhanced turbidimetric inhibition immunoassay (PETINIA)
	3. Valproic Acid	Particle-enhanced turbidimetric inhibition immunoassay (PETINIA)
	4. Gentamicin	Particle-enhanced turbidimetric inhibition immunoassay (PETINIA)
	5.Phenytoin	Immunoenzymatic
	6. Phenobarbital	Particle-enhanced turbidimetric inhibition immunoassay (PETINIA)
	Determination of 1 Parameter	
	1. Ferritin	**Automated Immunochemical analyzer ALINITY I (Ai01270, Ai21552, Ai21207, Ai21557, Ai21549,Ai21545,Ai21551, Ai21547, Ai21550,Ai21559,Ai21558)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 / 19/11/2024
	Determination of 1 parameter	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)	1. α-Fetoprotein (AFP)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21545, Ai21547, Ai21559)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Estradiol (E2)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21551, Ai21550, Ai21558)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Testosterone	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21548, Ai21546, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	2. β-Human Chorionic Gonadotropin (β-HCG)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21551)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 2 parameters	
	1. Cortisol 2. Dehydroepiandrosterone sulfate (DHEA-S)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21548, Ai21546, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 4 parameters	
	1. Carcinoembryonic antigen (CEA) 2. Cancer antigen CA 125 3. Cancer antigen CA 15-3	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21545, Ai21547, Ai21559)**

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum(continued)	4. Cancer antigen CA 19-9	Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Prostate Specific Antigen (PSA)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21549, Ai21545, Ai21548, Ai21547, Ai21546, Ai21559, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Free Prostate Specific Antigen (Free-PSA)	**Automated Immunochemical analyzer ALINITY I (Ai01270, Ai0271, Ai21545, Ai21547, Ai21559)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Sex Hormone Binding Globulin (SHBG)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21548, Ai21546, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Parathyroid Hormone (PTH)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21548, Ai21546)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	1. Vitamin B12	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21207, Ai21557, Ai21549, Ai21545, Ai21551, Ai21547, Ai21550, Ai21559, Ai21558)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 5 parameters	
	1. Folate 2. Prolactin (PRL) 3. Progesterone (PRG) 4. Follicle Stimulating Hormone (FSH) 5. Luteinizing Hormone (LH)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21551, Ai21550, Ai21558)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Insulin	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21548, Ai21546, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 2 parameters	
	1. C-Peptide 2. Neuron specific enolase (NSE)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum(continued)	1. Thyrotropin Hormone (TSH)	**Automated Immunochemical analyzer ALINITY I (Ai01270, Ai21552, Ai21207, Ai0271, Ai21557, Ai21549, Ai21545, Ai21548, Ai21547, Ai21546, Ai21559, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Free Thyroxin (Free-T4)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21207, Ai21557, Ai21549, Ai21545, Ai21548, Ai21547, Ai21559)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Thyroxin total (T4)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21545, Ai21548, Ai21547, Ai21546, Ai21559, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Free Triidothyronine (Free-T3)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21548, Ai21546, Ai21559)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	2. Triidothyronine total (T3)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21545, Ai21548, Ai21547, Ai21546, Ai21559, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Thyroglobulin (Tg)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21557, Ai21545, Ai21547, Ai21559)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 2 parameters	
	1. Thyroid Autoantibodies Against Microsomal Antibodies (ATPO)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21207, Ai21557, Ai21549, Ai21545, Ai21548, Ai21547, Ai21546, Ai21559, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	2. Antithyroglobulin Antibodies (ATG)	
	Determination of 1 parameter	
	1. TROPONIN-I	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549, Ai21548, Ai21546)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	1. Beta Natriuretic Peptide (BNP)	**Automated Immunochemical analyzer ALINITY I (Ai21207, Ai21549)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	1. OH Vitamin D (Total)	**Automated Immunochemical analyzer ALINITY I (Ai21552, Ai21207, Ai0271, Ai21557, Ai21549, Ai21551, Ai21548, Ai21550, Ai21546, Ai21558, Ai21556)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 /19/11/2024
	Determination of 1 parameter	
	N-Terminal Propeptide of Brain Natriuretic Peptide (NT-proBNP)	**Automated Immunochemical analyzer ALINITY I (Ai21552,Ai21557)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 / 19/11/2024
	Determination of 1 parameter	
	Squamous Cell Carcinoma Antigen (SCCAg)	**Automated Immunochemical analyzer ALINITY I (Ai01270,Ai0271)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 / 19/11/2024
	Determination of 1 parameter	
	Creatine Kinase- MB (CK-MB mass)	**Automated Immunochemical analyzer ALINITY I (Ai21552,Ai21557,Ai21551)** Chemiluminescent Magnetic Microparticle Immunoassay - CMIA MA-001/ B.0 / 19/11/2024
	Determination of 8 parameters	**Automated Immunochemical analyzer Cobas e 801 Roche** MA-002/B.2/28-03-2023
	1. Herpes simplex virus I IgG antibodies (HSV-I IgG Ab)	Electrochemiluminescence (ECLIA) MA-002/B.3/12-11-2024
	2. Herpes simplex virus II IgG antibodies (HSV-II IgG Ab)	
	3. High Sensitivity Troponin T	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	4. Cancer antigen CA 72-4	
	5. Calcitonin (CT)	
	6. PAPP-A	
	7. FBHGG	
	Determination of 3 parameters	
	Adrenocorticotropic Hormone (ACTH) New Test	**SNIBE Maglumi X3 (A06374, , A06458)** Χημειοφωταύγεια CLIA MA-002/B.3/12-11-2024
	Growth Hormone (HGH) New Test	
	17-OH Progesterone (17-OH PROG) New Test	
	Determination of 2 parameters	**Automated Analyzer Liaison XL Diasorin*** MA-002/B.3/12-11-2024
	1. Renin	Chemiluminescence CLIA
	2. Tissue Polypeptide Antigen (TPA)	
	Determination of 3 Parameters	**Automated Analyzer Immulite 2000, XPI Siemens*** MA-002/B.2/28-03-2023 MA-002/B.3/12-11-2024
	1.Androstenedione (Δ4)	Chemiluminescence
	2.Gastrin	
	3.Free Estriol (UE3)	
	Determination of 12 parameters	**Automated analyzer Alinity i x2 Ai01270, Ai01271, Abbott Laboratories** MA-001/A.9/28-03-2023 MA-001/ B.0 / 19/11/2024
	1. Total antibodies to Hepatitis A virus A IGG (Anti- HAV IGG)	Chemiluminescent Magnetic Microparticle Immunoassay - CMIA
	2. Antibody to hepatitis C virus(Anti-HCV)	
	3. Hepatitis B surface antigen(HBSAG)	
	4. Antibodies to Hepatitis B core antigen(HBcAb)	
	5. Antibody to hepatitis B surface antigen(HBsAb)	
	6. Toxoplasma IgG antibodies (TOXO IgG)	
	7. Toxoplasma IgM antibidies (TOXO IgM)	
	8. Cytomegalovirus IgG antibodies (CMV IgG)	
	9. Cytomegalovirus IgM antibodies (CMV IgM)	
	10. Antibodies to Rubella virus IgG Ab	
	11. Antibodies to Rubella virus IgM Ab	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	12. Antibodies to Human Immunodeficiency Virus (HIV Ag (p24) / HIV 1&2Ab)	
	Determination of 4 Parameters	**Analyzer Change** Automated Analyzer iSYS *2, ids A06452, A06453 MA-005/ A.5/ 12-11-2024
	1. Cardiolipin Antibodies IGG	Chemiluminescence
	2. Cardiolipin Antibodies IGMIGM	
	3. Antibodies against extractable nuclear antigens, anti-ENA (SSA, SSB, RNP/Sm, SCL-70, Jo1, CENP-B)	
	4. Antibodies against double stranded DNA (ds-DNA)	
	Determination of 6 Parameters	**Analyzer Change** Automated Analyzer iSYS *2, ids A06452, A06453 MA-005/ A.5/ 12-11-2024
	1. Human tissue transglutaminase antibodies IgG (ht-TG-IGG)	Chemiluminescence
	2. Human tissue trans glutaminase antibodies IgA (ht-TG-IGA)	
	3. Beta-2 GPI autoantibodies B2-GPI-IgG (B2-GPI-IGG)	
	4. Beta-2 GPI autoantibodies- B2-GPI-IgM (B2-GPI-IGM)	
	5.Anti-gliadin antibodies IGG (Anti-DGP / AGA IgG)	
	6.Anti-gliadin antibodies IGA (Anti-DGP / AGA IgA)	
	Determination of 3 Parameters	**Automated Analyzer Liaison XL Diasorin-1 Liaison XL Diasorin-2** A06234 MA-005/A.4/28-03-2023 MA-005/ A.5 / 12-11-2024
	1.Antibodies EPSTEIN BARR (VCA) IGG	Chemiluminescence
	2.Antibodies EPSTEIN BARR IGM	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	3.Antibodies to Nuclear Antigen EPSTEIN BARR EBV NA IGG	
	Determination of 3 Parameters	**Automated Immunoassay Slider Analyzer IFA SPRINTERx1 Euroimmun,** A06291& A06292 MA-005/A.4/28-03-2023 MA-005/ A.5 / 12-11-2024
	1. Antinuclear Antibodies (ANA)	Immunofluorescence (IFA) method
	2. Mitochondrial Antibodies (AMA)	
	3. Anti-double strained DNA (Anti-ds-DNA)	
	Προσδιορισμός 2 παραμέτρων	**Automated Analyzer** OPTILITE A06465 TholosimetryMA-005/ A.5 / 12-11-2024
	Free kappa chains **New Test**	
	Free lambda chains **New Test**	
	Determination of 2 parameter	**Automated Immunoassay Analyzer BN II Siemens-1, Automated Immunoassay Analyzer BN II Siemens-2** A0686 & A06130 MA-005/A.4/28-03-2023 Nephelometric
	Free-Kappa Chains	
	Free Lambda Chains	
Blood serum	**Direct Physicochemical Determination of 19 Parameters**	**High Pressure Liquid Chromatography with Qualitative & Quantitative determination detector coupled to Mass (LC-MS/MS)** MA-020/A.4/05-05-2023
	1. Total vitamin D (D_2/D_3)	
	2. Cholecalciferol [25-OH-D3]	
	3. Ergocalciferol [25-OH-D2]	
Urine	4. Cortisol Urine	
	5. Vanillyl mandelic acid (VMA)	**High Pressure Liquid Chromatography with Electrochemical detection (HPLC-EC detection)** MA-020/A.4/05-05-2023
	6. 5-Hydroxyindoleacetic acid	
	7. Homovanillic acid	
	8. Urinary Catecholamines	
	9. Epinephrine [Adrenaline]	
	10. Norepinephrine [Noradrenaline]	
	11. Dopamine	
	12. Metanephrines	
	13. Metanephrine	
	14. Normetanephrine	
	15. 3-Methoxytyramine (3-MT)	
	16. Everolimus	**High Pressure Liquid Chromatography with Electrochemical detection (HPLC-EC detection)**
	17. Cyclosporine	
	18. Tacrolimus	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	19. Sirolimus	MA-020/A.4/05-05-2023
Whole Blood	**Direct Physicochemical Determination of 12 Parameters (Reference methods)**	**Inductively Coupled Plasma Mass Spectrometry (ICP-MS)** MA-020/A.4/05-05-2023
	1. Antimony (Sb)	
	2. Arsenic (As)	
	3. Cadmium (Cd)	
	4. Chromium (Cr)	
	5. Cobalt (Co)	
	6. Lead (Pb)	
	7. Magnesium (Mg)	
	8. Manganese (Mn)	
	9. Mercury (Hg)	
	10. Nickel (Ni)	
	11. Selenium (Se)	
	12. Zinc (Zn)	
	Direct Physicochemical Determination of 8 Parameters (Reference methods)	**Inductively Coupled Plasma Mass Spectrometry (ICP-MS)** MA-020/A.4/05-05-2023
Plasma/Serum	1. Antimony(Sb)	
	2. Arsenic(As)	
	3. Cadmium (Cd)	
	4. Chromium(Cr)	
	5. Cobalt (Co)	
	6. Copper (Cu)	
	7. Iron(Fe)	
	8. Zinc (Zn)	
Urine	**Direct Physicochemical Determination of 12 Parameters (Reference methods)**	**Inductively Coupled Plasma Mass Spectrometry (ICP-MS)** MA-020/A.4/05-05-2023
	1. Aluminium(Al)	
	2. Arsenic(As)	
	3. Iodine (I_2)	
	4. Cadmium (Cd)	
	5. Chromium(Cr)	
	6. Cobalt (Co)	
	7. Copper (Cu)	
	8. Lead (Pb)	
	9. Manganese(Mn)	
	10. Mercury (Hg)	
	11. Selenium (Se)	
	12. Zinc (Zn)	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum	**Determination of 189 Allergens**	**Change Analyzer** Phadia250 *2 THERMO SCIENTIFIC A06454 & A06455 MA-005/A.4/28-03-2023
Blood serum (continued)	Quantitative measurment of allergen-specific IgE	immunoCAP-FEIA
	1. PENICILLOYL G (c1) Specific IGE,	
	2. PENICILLOYL V (c2) Specific IGE,	
	3. AMPICILLOYL (c5) Specific IGE,	
	4. AMOXICILLOYL (c6) Specific IGE,	
	5. Cefaclor c7	
	6. Ascaris p1	
	7. Aniscaris p4	
	8. DERMATOPHAGOIDES PTERONYSSINUS Specific IGE,	
	9. DERMATOPHAGOIDES FARINAE Specific IGE,	
	10. DERMATOPHAGOIDES MICROCERAS Specific IGE,	
	11. ACARUS SIRO Specific IGE,	
	12. LEPIDOGLYPHUS DESTRUCTOR Specific IGE,	
	13. TYROPHAGUS PUTRESCENTIAE Specific IGE,	
	14. GLYCOPHAGUS DOMESTICUS Specific IGE,	
	15. EUROGLYPHUS MAYNEL Specific IGE,	
	16. Blomia tropicalis d201	
	17. CAT EPITHELIUM Specific IGE,	
	18. DOG EPITHELIUM Specific IGE,	
	19. CANARY BIRD FEATHERS Specific IGE,	
	20. PIGEON FEATHERS Specific IGE,	
	21. HORSE DANDER Specific IGE,	
	22. DOG DANDER Specific IGE,	
	23. PIGEON DROPPINGS Specific IGE,	
	24. GOOSE FEATHERS Specific IGE,	
	25. MOUSE EPITEHL Specific IGE,	
	26. BUDGERIGAR FEATHERS Specific IGE,	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)	27. BUDGERICAR PROTEIN SERUM Specific IGE,	immunoCAP-FEIA
	28. GOAT EPITHELIUM Specific IGE,	
	29. CHICKEN FEATHERS Specific IGE,	
	30. Hamster epithelium e84	
	31. DUCK FEATHERS Specific IGE,	
	32. EGG WHITE (f1) Specific IGE,	
	33. SESAME SEED (f10) Specific IGE,	
	34. CHOCOLATE Specific IGE	
	35. GREEN PEA (f12) Specific IGE,	
	36. PEANUT (f13) Specific IGE,	
	37. SOYA BEEN (f14) Specific IGE,	
	38. WHITE BEAN (f15) Specific IGE,	
	39. HAZELNUT (f17) Specific IGE,	
	40. BRAZIL NUT (f18) Specific IGE,	
	41. COW MILK (f2) Specific IGE,	
	42. ALMOND (f20) Specific IGE,	
	43. CASHEW NUT (f202) Specific IGE,	
	44. PISTACHIO (f203) Specific IGE,	
	45. LEMON (f208) Specific IGE,	
	46. Pineapple f210	
	47. MUSHROOM Specific IGE,	
	48. LETTUCE Specific IGE,	
	49. CABBAGE Specific IGE,	
	50. COFFEE (f221) Specific IGE,	
	51. PUMPKIN (f225) Specific IGE,	
	52. CRAB (f23) Specific IGE,	
	53. LENTIL (f235) Specific IGE,	
	54. Cow’s milk boiled f231	
	55. APRICOT (f237) Specific IGE,	
	56. SHRIMP (f24) Specific IGE,	
	57. CHERRY (f242) Specific IGE,	
	58. EGG (FULL) (f245) Specific IGE,	
	59. TOMATO (f25) Specific IGE,	
	60. WALNUT (f256) Specific IGE,	
	61. SQUID (f258) Specific IGE,	
	62. GRAPE (f259) Specific IGE,	
	63. PORK (f26) Specific IGE,	
	64. BROCCOLI Specific IGE,	
	65. BEEF (f27) Specific IGE,	
	66. BLACK PEPPER (f280) Specific IGE,	
	67. TURKEY MEAT Specific IGE,	
	68. CAULIFLOWER (f291) Specific IGE,	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)	69. CHESTNUT (f299) Specific IGE, 70. CODFISH (f3) Specific IGE, 71. CARROT (f31) Specific IGE, 72. ORANGE (f33) Specific IGE 73. POTATO (f35) Specific IGE, 74. COCONUT (f36) Specific IGE, 75. BLUE MUSSEL (f37) Specific IGE, 76. WHEAT(f4) Specific IGE, 77. TUNA (f40) Specific IGE, 78. SALMON (f41) Specific IGE, 79. Haddock f42 80. STRAWBERRY (f44) Specific IGE, 81. YEAST (f45) Specific IGE, 82. APPLE (f49) Specific IGE, 83. Onion f48 84. RYE (f5) Specific IGE, 85. OKTOPUS (f59) Specific IGE, 86. ARLEY (F6) Specific IGE, 87. Sardine (F61) Specific IGE, 88. PERCH (F65) Specific IGE, 89. OAT (f7) Specific IGE, 90. EGG YOLK (f75) Specific IGE, 91. ALPHA LACTALBUMIN (f76) Specific IGE, 92. BETA LACTOGLOBULIN (f77) Specific IGE, 93. CASEIN (f78) Specific IGE, 94. GLUTEIN (79) Specific IGE, 95. CORN (f8) Specific IGE, 96. LOBSTER (f80) Specific IGE, 97. CHEESE, CHEDDAR TYPE (f81) Specific IGE, 98. CHEESE, MOLD TYPE (f82) Specific IGE, 99. CHICKEN MEAT (f83) Specific IGE, 100. KIWI FRUIT (f84) Specific IGE, 101. CELERY (f85) Specific IGE, 102. PARSLEY Specific IGE, 103. MELON (f87) Specific IGE, 104. LAMB (MUTTON) (f88) Specific IGE, 105. RICE (f9) Specific IGE, 106. BANANA (f92) Specific IGE, 107. CACAO (f93) Specific IGE, 108. PEAR (f94) Specific IGE,	immunoCAP-FEIA

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)	109. Avocado F96	immunoCAP-FEIA
	110. PEACH (f95) Specific IGE,	
	111. SWEET VERNAL GRASS (g1) Specific IGE,	
	112. JOHNSON GRASS Specific IGE,	
	113. BROME GRASS Specific IGE,	
	114. CULTIVATED RYE Specific IGE,	
	115. CULTIVATED OAT Specific IGE,	
	116. CULTIVATED WHEAT Specific IGE,	
	117. MEADOW FOXTAIL GRASS Specific IGE,	
	118. BAHIA GRASS Specific IGE,	
	119. BERMUDA GRASS (g2) Specific IGE,	
	120. ZEA MAYS (CORN) Specific IGE,	
	121. COCKSFOOT (DAKTYLIS) (g3) Specific IGE,	
	122. MEADOW FESCUE (g4) Specific IGE,	
	123. LOLIUM PERENNE (g5) Specific IGE,	
	124. TIMOTHY GRASS (g6) Specific IGE,	
	125. COMMON REED GRASS Specific IGE,	
	126. KENTUCKY BLUE (g8) Specific IGE,	
	127. BENT GRASS (g9) Specific IGE,	
	128. GREER LABS. Specific IGE,	
	129. HOLLISTER-STIER LABS. Specific IGE	
	130. HONEY BEE Specific IGE	
	131. WHITE-FACED HORNET Specific IGE,	
	132. YELLOW JACKET Specific IGE,	
	133. PAPER WASP Specific IGE,	
	134. YELLOW HORNET Specific IGE,	
	135. COCKROACH Specific IGE,	
	136. MOSQUITO Specific IGE,	
	137. European Paper Wasp i77	
	138. EUROPEAN HORNET Specific	
	139. MOTH Specific IGE,	
	140. ISOCYANATE TDI Specific IGE,	
	141. FORMALDEHYDE / FORMALIN Specific IGE,	
	142. LATEX Specific IGE,	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	143. SUNFLOWER SEED (k84) Specific IGE,	Chemiluminescence (CLIA) immunoCAP-FEIA
	144. PENICILLIUM MOTATUM Specific IGE,	
	145. AUREOBASIDIUM PULLULANS Specific IGE,	
	146. CLADOSPORIUM HERBARUM Specific IGE,	
	147. ASPERGILLUS FUMIGATUS Specific IGE,	
	148. MUCOR RACEMOSUS Specific IGE,	
	149. CANDIDA ALBICANS Specific IGE,	
	150. ASPERGILLUS TERREUS m36	
	151. STAPHYLOCOCCAL ENTEROTOXIN A m80	
	152. STAPHYLOCOCCAL ENTEROTOXIN B m81	
	153. ASPERGILLUS NIGER m207	
	154. ASPERGILLUS FLAVUS m228	
	155. BOTRYTIS CINEREA Specific IGE,	
	156. PITYROSPORUM ORBICULARE Specific IGE,	
	157. HELMINTHOSPORIUM HALODES Specific IGE,	
	158. FUSARIUM MONILIFORME Specific IGE,	
	159. COTTON (CRUDE FIBERS) (o1) Specific IGE,	
	160. BOX-ELDER Specific IGE,	
	161. WALNUT Specific IGE,	
	162. SYCAMORE Specific IGE,	
	163. WILLOW Specific IGE,	
	164. COTTONWOOD Specific IGE,	
	165. WHITE ASH Specific IGE,	
	166. WHITE PINE Specific IGE,	
	167. JAPANESE CEDAR Specific IGE,	
	168. EYCALYPTUS Specific IGE,	
	169. ACACIA Specific IGE,	
	170. ELDER Specific IGE,	
	171. MESQUITE Specific IGE,	
	172. PECAN Specific IGE,	
	173. ITALIAN CYPRESS Specific IGE,	
	174. COMMON SILVER BIRCH Specific IGE,	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum (continued)	175. HAZEL Specific IGE,	
	176. BEECH Specific IGE,	
	177. MOUNTAIN JUNIPER Specific	
	178. OAK Specific IGE,	
	179. MULBERRY Specific IGE,	
	180. Australian Pine t73	
	181. Pine t213	
	182. Cypress t222	
	183. ELM Specific IGE,	
	184. OLIVE Specific IGE,	
	185. AMBROSIA ELATIOR Specific	
	186. GOOSEFOOT Specific IGE,	
	187. SALTWORT Specific IGE,	
	188. GOLDENROD Specific IGE,	
	189. ROUGH PIGWEED Specific IGE,	
	190. ROUGH MARSH ELDER Specific IGE,	
	191. PARIETARIA OFFICINALIS Specific IGE,	
	192. AMBROSIA PSILOSTACHYA Specific IGE,	
	193. NETTLE Specific IGE,	
	194. PARIETARIA JUDAICA Specific IGE,	
	195. RABBIT BUSH W36 Specific IGE,	
	196. MUGWORT W6 Specific IGE,	
	197. MARGUERITE W7 Specific IGE,	
	198. DANDELION W8 Specific IGE,	
	199. Camomile w206	
	200. PLANTAIN Specific IGE,	
	a. Mixtures of allergens	
	201. GOOSE-CHICKEN-DUCK AND TURKEY FEATHERS e70, e85, e86, e89) EX71 Specific IGE	
	202. FP1 (f13, f17, f18, f20, f36) Specific IGE,	
	203. GX1 (g3, g4, g5, g6, g8) Specific IGE,	
	204. GX2(g2, g5, g6, g8,g10, g17) Specific IGE,	
	205. HX1(H1, D1, D2, I6) Specific IGE,	
	206. MX1 (m1, m2, m3, m5, m6) Specific IGE,	
	207. MX2 (m1, m2, m3, m5, m6, m8)	
	208. WX3(w6, w9, w10, w12, w20) Specific IGE,	
	209. f76 - nBos d 4 alpha-lactalbumin, Milk (Bos spp), IgE NEW TEST	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	210. f77 - nBos d 5 beta-lactoglobulin, Milk (Bos spp), IgE NEW TEST	
	211. f78 - nBos d 8 Casein, Milk (Bos spp), IgE NEW TEST	
	212. f232 - nGal d 2 Ovalbumin, Egg (Gallus spp), IgE NEW TEST	
	213. f233 - nGal d 1 Ovomucoid, Egg (Gallus spp), IgE NEW TEST	
	214. f416 - rTri a 19 Omega-5 Gliadin, Wheat (Triticum aestivum), IgE NEW TEST	
	215. f433 - rTri a 14 LTP, Wheat (Triticum Aestivum), IgE NEW TEST	
	216. f423 - rAra h 2 Peanut (Arachis hypogaea), IgE NEW TEST	
	217. f420 - rPru p 3 LTP, Peach (Prunus persica), IgE NEW TEST	
	218. d202 - rDer p 1 House dust mite (Dermatophagoides Pteronyssinus), IgE NEW TEST	
	219. d203 - rDer p 2 House dust mite (Dermatophagoides Pteronyssinus), IgE NEW TEST	
	220. t224 - rOle e 1 Olive (Olea europaea), IgE NEW TEST	
	221. t226 - nCup a 1 Cypress (Cupressus arizonica), IgE NEW TEST	
	222. w211 - rPar j 2 LPT, Wall pellitory (Parietaria judaica), IgE NEW TEST	
	223. g205 - rPhl p 1 Timothy (Phleum pratense), IgE NEW TEST	
Microbiological Tests		
Urine	**Determination of 11 parameters**	**Automated Analyzer UC 3500(x2)** MA 022 A.4 12-11-2024
	1. Specific gravity	Flow cytometry
	2. pH	Automated reflectance photometry
	3. Red Blood Cells	
	4. White Blood Cells / Leucocytes	
	5. Nitrites	
	6. Glucose	
	7. Bilirubin	
	8. Urobilinogen	
	9. Protein	
	10. Ketones (oxone)	
	11. Hemoglobin	

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	Determination of 9 parameters	**Automated Analyzer UF 4000 (x2)** MA-022/A.4/20-03-2023 MA 022 A.4 12-11-2024
	1. Epithelial cells	Microscopic examination and Automated Urine Particle Digital Imaging.
	2. White Blood Cells / Leucocytes	
	3. Red Blood Cells	
	4. Bacteria	
	5. Casts	
	6. Crystals	
	7. Fungi	
	Determination of 21 parameters	MA-054 A.9 20-11-2024
Blood	1. Direct microscopy	Microscopy, Gram stain
	2. Blood culture	BACT/ALERT 3D, (New Analyzer)
Urine	3. Direct microscopy	Microscopy
	4. Urine culture	Aerobic culture
Pharyngeal Smear	5. Culture pharyngeal smear	Aerobic/Anaerobic culture Microscopy
Vaginal discharge	6. Direct microscopy	Microscopy, Gram stain
	7. Culture of vaginal discharge	Aerobic/Anaerobic culture
	8. *Mycoplasma hominis*	Culture, Biochemical detection/Identification
	9. *Ureaplasma urealyticum*	Culture, Biochemical detection/Identification
Stool	10. Stool culture	Aerobic culture
	11. *Campylobacter spp*	Culture (microaerophilicatmosphere)
	12. *Yersinia enterocolitica*	Aerobic culture (25^{o} C)
	13. Enteropathogenic Strains *E.coli* (EPEC)	Serotyping
Culture suspension	14. Antibiogram MIC	VITEK 2 Method of successive dilutions
Bacterial cultures, of the clinical specimens discrete colonies	15. Identification	VITEK 2, Microscopy, Gram stain, Biochemical identification, Mass spectrophotometry method New Analyzer
	16. Identification of streptococci	Agglutination tes, VITEK 2 Method of successive dilutions
	17. Identification of staphylococci	Agglutination test, VITEK 2 Method of successive dilutions
	18. Antimicrobial susceptibility testing	Disk diffusion test
	19. Pathogenes' Identification, MALDITOF	Mass Spectrometry, MALDITOF, BioTyper
Mycology Tests		

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
	Determination of 22 parameters	MA-051 A.7 8/12/2025, MICROSCOPY NIKON ECLIPSE E200
All clinical materials	1.Direct Microscopy	Microscopy, Yeast Traffic Light PNA-FISH, Fungi-Fluor QuickFISH, KOH clarification, Gram stain, Fontana-Masson stain, Lactophenol Cotton Blue (LCB) Stain, May-Grünwald-Giemsa stain, Indian ink stain
Nails	2.Direct Nail Microscopy for Fungi	MICROSCOPY NIKON ECLIPSE E200, Microscopy KOH Clarification
Hair	3.Direct Hair Microscopy for Fungi	MICROSCOPY NIKON ECLIPSE E200 Microscopy KOH Clarification
Skin	4.Direct Skin Microscopy for Fungi	MICROSCOPY NIKON ECLIPSE E200, Microscopy KOH Clarification, Gram staining, Fontana Staining
Scalp	5.Direct Scalp Microscopy for Fungi	MICROSCOPY NIKON ECLIPSE E200, Microscopy KOH Clarification, Gram staining, Fontana Staining
All clinical materials	6.Culture for Fungi	MICROSCOPY NIKON ECLIPSE E200 Aerobic Culture in agar or broth SA, SCH, Chrom, Dixon's, PDA, TTC,Czapek, CMA,, MEA etc., Molecular identification, (MALDI TOF, Sanger sequencing, ABI 3500 NGS)
Hair	7. Hair Culture for Fungi	Aerobic Culture (MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200
Nail Clippings	8.Nail Clippings Culture for Fungi	
Skin	9.Skin Culture for Fungi	
Scalp	10.Scalp Culture for Fungi	
Scalp	11.Direct Scalp Microscopy for *Malassezia* spp	Gram staining, (MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200
Skin	12.Direct Skin Microscopy for *Malassezia* spp	Gram staining (MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200
Scalp	13.Scalp Culture for *Malassezia* spp	Aerobic Culture in Dixon's medium(MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200
Skin	14.Skin Culture for *Malassezia* spp	Aerobic Culture in Dixon's medium(MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Cultures	15.Fungal Identification	Microscopy, Differential Culture (SA, SCH, Chrom, Dixon's, PDA, TTC, Czapek, CMA, MEA, etc), Biochemical Identification Panel, Latex Assay, PCR, RT-PCR; TC 9639 Thermal Cycler, Benchmark, NGS;ABI 3500 Genetic Analyzer, Applied Biosystems Hitachi, MALDI-TOF-MS, Bruker (MALDI TOF, Sanger sequencing, ABI 3500 NGS) MICROSCOPY NIKON ECLIPSE E200
Culture suspension	16.Antifungal Susceptibility Testing MIC	Microdilution minimum inhibitory concentration method
Culture suspension	17.Antifungal Susceptibility Testing	Endpoint sensitivity testing with anti-fungal agent discs diffusion on solid substrate
Serum	18.*Candida* Antigens (Mannan)	ELISA
Serum	19.*Candida* Antibodies (Anti-mannan)	ELISA
Serum	20.*Candida albicans* IgG, IgM Antibodies	ELISA
Serum, CSF	21.*Cryptococcus* spp Antigens	Lateral flow assay
Culture suspension	22.Culture Fungi Molecular typing	PCR, RT-PCR TC 9639 Thermal Cycler, Benchmark, NGS;ABI 3500 Genetic Analyzer, Applied Biosystems Hitachi
BAL, BRONCHIAL SECRETIONS	MOLECULAR DIAGNOSIS Pneumocystis jirovecii	RT-PCR LongGen RT-PCR (Νέα Δοκιμή)
Nails, Hair, Skin	MOLECULAR DETECTION OF FUNGAL INFECTIONS OF SKIN AND COMPONENTS	RT-PCR LongGen RT-PCR (Νέα Δοκιμή)
SERUM, BAL, BRONCHIAL SECRETIONS	DETECTION OF GALACTOMANNAN ASPERGILLUS ANTIGEN	SANDWICH ELISA ΦΩΤΟΜΕΤΡΟ TECAN(Νέα Δοκιμή)
Cytogenetic and Molecular Cytogenetic Testing		
1. Whole peripheral blood in heparin	Blood karyotype. Cytogenetic analysis after culturing and banding with GTG high resolution. Detection of constitutional numerical and structural chromosomal rearrangements/imbalances. Based on standard banding pattern.	72h culture with addition of thymidine. Harvest and preparation of chromosomes. GTG banding. Light microscopic analysis. Karyotyping. MA-027/ A.3/ 11-04-2024
2. Amniotic fluid, chorionic villi (CV), products of conception, skin.	Cytogenetic analysis with GTG banding in amniotic fluid, chorionic villi (CV), products of conception, skin cultured cells. Detection of constitutional numerical and structural chromosomal rearrangements/imbalances. Based on standard banding pattern.	Culture. Harvest and preparation of chromosomes. GTG banding. Light microscopic analysis. Karyotyping. MA-026/ A.3/ 11-4-2024 MA-028/A.2/12-10-2022 MA-029/A.2/12-10-2022 MA-029 / A.3 / 11-4-2024

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
3.Bone marrow in heparin.	Cytogenetic analysis with GTG banding after culturing. Detection of numerical and structural acquired aberrations in hematological disorders. Based on standard banding pattern.	Culture 24h, 48h, 72h. Harvest and preparation of chromosomes. GTG banding. Light microscopic analysis. Karyotyping. MA-030/ A,5/ 16-09-2024
4. Whole peripheral blood in heparin	Blood karyotype. Cytogenetic analysis after culturing and banding with GTG banding. Detection of numerical and structural acquired chromosomal aberrations in hematological disorders. Based on standard banding pattern.	Culture 24h, 48h, 72h. Harvest and preparation of chromosomes. GTG banding. Light microscopic analysis. Karyotyping. MA-030/ A,5/ 16-09-2024
5. Bone Marrow in heparin/Whole Peripheral Blood in heparin	Molecular cytogenetic analysis with FISH (Fluorescence *In Situ* Hybridization) in Bone Marrow/Peripheral Blood for detection of numerical and structural acquired chromosomal aberrations in hematological disorders. 1. Detection of fusion genes 2. Detection of autosomal and sex chromosome aneuploidy. 3. Detection of gene rearrangements 4. Detection of chromosomal/gene deletions/duplications	Culture 24h, 48h, 72h. Harvest and preparation of chromosomes. interphase/metaphase FISH analysis. Fluorescence microscopy. MA-031 / A.4 / 16-09-2024
6. Paraffin-embedded sections	Molecular cytogenetic FISH analysis (Fluorescence *In Situ* Hybridization) for detection of gene amplification of HER-2/ERBB2 in solid tumours.	FISH analysis of cells from paraffin-embedded sections. Fluorescence microscopy. MA-032 / A.5 / 28-11-2024
Peripheral blood	Detection of the V617F mutation of the JAK2 gene.	JAK2 V617F Mutation analysis by High Resolution Melting Analysis*. Cobas z 480 Roche (A06226) MA-068 /A.0/ 27-11-2024
Bone Marrow / Peripheral Blood	Qualitative detection of chimeric BCR-ABL transcripts.	Light Cycler BCR-ABL qualitative Cobas z 480 Roche (A06226) MA-064/ A.0/ 12/12/2024
Molecular Testing		

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
1. Blood plasma (EDTA)	Quantification of Hepatitis B Virus DNA (HBV-DNA)	MethodXpert® HBV Viral Load by CEPHEID GeneXpert-Cepheid (A06317) MA-038/A.0/5-12-2024
2. Blood plasma (EDTA), Whole blood (EDTA)	Quantification of Hepatitis C Virus RNA (HCV-RNA)	GeneXpert-Cepheid (A06317) MethodXpert® HCV Viral Load by CEPHEID MA-038/A.0/5-12-2024
3. Whole blood (EDTA)	Detection of the 99% mutations of cystic fibrosis transmembrane conductance regulator (CFTR) gene	DEVYSER CFTR NGS Illumina MiSeq (A06230) MA-035/ A.0 / 5-12-2024
4. Formalin Fixed Paraffin Embedded Tissue	EndoPredict detects the expression of 8 informative genes and 4 reference genes as internal controls for the genetic profile of Breast Cancer	ENDOPREDICT by MYRIAD* MA-034/A.8/03-05-2023
5.Whole Blood (EDTA)	Mutation detection of BRCA1 and BRCA2 gene	DEVYSER BRCA1-2 mutation analysis on ILLUMINA MiSEQ* Illumina MiSeq (A06230) MA-065/A.0/12-12-2024
Whole Blood (EDTA)	Detection of mutations in the BRCA1 and BRCA2 genes by new generation sequencing (NGS).	BRCA1-2 Mutation Analysis SureSelect XT HS2 DNA kit (Agilent) (Νέα Μεθοδολογία) Illumina MiSeq (A06230) MA-065/A.0/12-12-2024
6. Cervical sample	Human Papilloma virus detection and typing (HPV) –41 types (6, 11, 16, 18, 26, 31, 33, 34, 35, 39, 40, 42,43, 44, 45, 51, 52, 53, 54, 55, 56, 58, 59, 61, 62, 64, 66, 67, 68, 69, 70, 71, 72, 73 (MM9), 81, 82 (MM4), 83 (MM7), 84 (MM8), IS39, CP6108)	1.VisionArray ® HPV Chip by ZytoVision Denaturation/Hybridization HPV (A0770) Epson Perfection v600 Photo (A06332) MA-040/ A.0/ 5-12-2024
(EDTA)	Detection of the ΔF508 mutation of the CFTR gene	Genvinset® deltaF508 Cobas z 480 Roche (A06226) Νέα Δοκιμή MA-036 A.0 5-12-2024

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Whole Blood (EDTA)	Molecular detection of HLA-B27	HLA-FluoGene Q (Inno-train) Quant Studio 5 (Applied Biosystems) (A06318) Νέα Δοκιμή MA-039 A.0 5-12-2024
Whole Blood (EDTA)	Molecular detection of the C677T mutation of the MTHFR gene	GbHEMO MTHFR (C677T), Generi Cobas z 480 Roche (A06226) Νέα Δοκιμή MA-042 A.0 5-12-2024
Whole Blood (EDTA)	Molecular detection of the A1298C mutation of the MTHFR gene	GbHEMO MTHFR (A1298C), Generi Cobas z 480 Roche (A06226) Νέα Δοκιμή MA-041 A.0 5-12-2024
Cytological tests		
Biological Specimens and Fluids of conventional cytology	**Determination of 6 parameters (which refer to all specimens and fluids)**	**Technique / Equipment (Automatic staining machine, Centrifuge)**
1. Gynecological specimens (cervicovaginal smears, endometrial specimens)	Morphologic test – (Qualitative – Semiquantitative method)/ 1. Specimen adequacy 2. Presence of normal cells 3. Inflammatory cell lesions 4. Specific inflammation (typing) 5. Precancerous lesions 6. Primary and secondary neoplastic diseases	1. Fixation 2. Papanicolaou stain (Automatic staining machine, Shandon Varistain 24-4) 3. Microscopy Olympus C31 x3, Olympus Cx23 x 2, Olympus Cx43 x 1, EuromexBioBlue Lab BB1152-PLx1 MA-014/A.5/08-03-2021
Histological examinations		

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
1.Excisional & Incisional Biopsies, Surgical Resection Specimens from Human tissue	Macroscopic handling and description of the fixed tissue by the pathologist, selection of the tissue sections for embedding, microsectioning, slide preparation, H&E stains, histochemical stains.	Embedding station CD1000 1 Embedding station CD1000 2 Embedding station CD1000 3 BIO-OPTICA ITALY HISTOKINETTE EXCELSIOR ES THERMO UK HISTOKINETTE Histo-Tek MICROTOME 1 FINESSE ME+THERMO UK MICROTOME 1 FINESSE ME+THERMO UK Symphony-S-PLUS VENTANA-ROCHE BENCHMARK SPECIAL STAINS VENTANA-ROCHE MA-060/A.1/23-06-2021
2. Formalin Fixed Paraffin Embedded Tissue [FFPE]	Microscopic evaluation-interpretation of stained tissue sections (H&E and histochemical stains) to detect lesions deviating from the normal histomorphlogical and cellular stucture in order to timely diagnose neoplasias and special nosological entities.	MICROSCOPES OLYMPUS CX31 OLYMPUS BX 43F OLYMPUS BX 43 OLYMPUS CX23LEFRFS2 MA-060/A.1/23-06-2021
3.Excisional & Incisional Biopsies, Surgical Resection Specimens from Human tissue Fresh non-fixed tissue Frozen tissue embedded in a cryo-block	**Macroscopic Examination** Gross handling of biopsies & surgical specimens by a qualified pathologist for sectioning by frozen sections equipment (cryostat) **Rapid H&E staining** protocol **Rapid microscopic evaluation** for the detection of lesions that deviate from the normal cellular & morphological structure, to allow early diagnosis of tumors and specific diseases, providing guidance to the surgeon intraoperatively.	CRYOSTAT SHANDON CRYOTOME FE/FSE THERMO SCIENTIFIC FROZEN SECTION BIOPSY CRYOSTAT SYSTEM PRESTOCHILL MILESTONE Symphony-S-PLUS VENTANA-ROCHE MICROSCOPES OLYMPUS CX31 OLYMPUS BX 43F OLYMPUS BX 43 OLYMPUS CX23LEFRFS2 MA-060/A.1/23-06-2021
Immunohistochemistry examinations		
	Προσδιορισμός 8 παραμέτρων	**BENCHMARK ULTRA VENTANA-ROCHE** MA-060/A.1/23-06-2021
1.Excisional & Incisional Biopsies,	1. ER – IHC	**Immunohistochemistry** Percentage of estrogen expression rate in breast cancer

Materials/ Products tested	Types of test/Properties measured	Applied methods/Techniques used
Surgical Resection Specimens & from Human tissue & Body Fluids 2.Formalin Fixed Paraffin Embedded Tissue [FFPE]	2. PR – IHC	**Immunohistochemistry** Percentage of progesterone expression rate in breast cancer
	3. C-erbB2 – IHC	**Immunohistochemistry** Percentage of oncoprotein expression rate in primary breast cancer biopsies
	4. Ki-67 – IHC	**Immunohistochemistry** Estimation of the mitotic percentage activity of the tested tumor
	5. PDL-1 (SP263) – IHC	**Immunohistochemistry** Expression rate of PD-L1 (SP263) antibody in non-small cell lung cancer and urothelial cancer for immunotherapy decision
	6. PDL-1 (22C3) – IHC	**Immunohistochemistry** Expression rate of PD-L1 (SP263) antibody in non-small cell lung cancer and urothelial cancer for immunotherapy decision
	7. ALK (D5F3) – IHC	**Immunohistochemistry** Expression rate of anaplastic lymphoma kinase ALK (D5F3) in metastatic non-small cell lung cancer for treatment decision
	8. MSI - IHC	**Immunohistochemistry** Qualitative detection of the absence or presence of microsatellite instability (negative or positive) in colon cancer for confirmation and prediction of treatment outcome.

**Reference to the commercial name of a specific analyzer/kit, refers to a specific analytical method and protocol*
IFCC: International Federation of Clinical Chemistry
DGKC: Deutsche Geselschaft fur Klinische Chemie

Site of assessment: **Laboratory permanent premises, 132 Kifisias av. and Papada str., 11526 Athens, Greece.**

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The Accreditation Certificate No. 356-8, to ELOT EN ISO 15189:2022, is valid until 30.05.2028.

Athens, 29.05.2025

Konstantinou Evangelos Apostolos
CEO of ESYD