Hellenic Accreditation System

Annex G1/1 to the Certificate No.1244

SCOPE of ACCREDITATION

of the

Clinical Laboratory

XHELILI

PRIVATE DIAGNOSTIC LABORATORY

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Biochemical Testing		
	Determination of 9 parameters	**Automated analyzer Cobas Integra 400*** **LAB_P #504/1/5.1.19**
Blood Serum	1. Aspartate Aminotransferase (AST)	Quantitative determination of the catalytic activity of AST (EC 2.6.1.1; L-aspartate; 2-oxoglutarate aminotransferase) in serum and plasma REF: 20764949322
	2. Alanine Aminotransferase (ALT)	Quantitative determination of the catalytic activity of ALT (EC w.6.1.2; L-alanine: 2-oxoglutarate aminotransferase) in serum and plasma REF: 20764957322
	3. Creatinine	The enzymatic method is based on the established determination of hydrogen peroxide after conversion of Creatinine with the aid of creatininase, creatinase, and sarcosine oxidase REF:04810716190
	4. Uric Acid	END POINT- The hydrogen peroxide formed reacts with N-ethyl-N-(2-hydroxy-3-sulfopropyl)-m-toluidine (TOOS) and 4-aminoantipyrine (4-AAP) in the presence of peroxidase (POD) and forms a red quinone-imine dye REF: 03183807190
	5.Urea	FIXE TIME- In the second reaction 2-oxoglutarate reacts with ammonium in the presence of glutamate dehydrogenase

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
		(GLDH) and the coenzyme NADH to produce L-glutamate. In this reaction two moles of NADH are oxidized to NAD for each mole of urea hydrolyzed REF: 04460715190
	6.Glucose (GLU)	END POINT- Hexokinase (HK) catalyzes te phosphorylation of glucose by ATP to form glucose-6-phosphate and ADP REF: 04404483190
	7.Triglycerides (TRI)	END POINT- In the presence of peroxidase (POD), hydrogen peroxide effects the oxidative coupling of 4-chlorophenol and 4-aminophenazone to form a red-colored quinone-imine dye REF: 20767107322
	8. Bilirubin Total (BILT)	END POINT- in the presence of a suitable solubilizing agent, is coupled with a 3.5 dichlorophenyl diazonium ion in a strongly acidic medium REF: 05795397190
	9. Cholesterol (total)	END POINT-In the presence of peroxidase (POD), the hydrogen peroxide formed effects the oxidative coupling of phenol and 4-amino-antipyrine (4-AAP) to form a red-colored quinone-imine dye REF: 030399773190
Hematology Tests		
	Determination of 8 parameters	**Automated Hematology Sysmex XS-1000i*** **LAB_P #504/1/5.1.19**
Whole Blood (EDTA)	1. Hemoglobim (HB)	Method Photometry
	2. Haematocrit (HCT)	Method Numeric integration
	3. White Blood Cells (WBC)	Technology Cytometry & Cytochemical association
	4. Red Blood Cells (RBC)	Method Impedance
	5. MCV (Vellimi Mesatar Korpuskular)	Calculated Parameter
	6. MCH (Hemoglobina Mesatare Korpuskulare)	Calculated Parameter
	7. MCHC (Perqendrimi I Hemoglobines Mesatare Korpuskulare)	Calculated Parameter
	8. Platelet (PTL)	Method Impedance

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

Site of assessment: **Permanent laboratory premises, ELBASAN Lagjja Haxhias, rruga Petrit Gaçe, zona kadastrale nr.8525, pasuria nr.9/249, kati 1, Albania.**
Approved signatories: **Dr.Ferdinant Xhelili**.

The Accreditation Certificate No.1244, to EN ISO 15189:2012, is valid until 28.03.2025.

Athens, March 29, 2021

Spyridon Podaras
CEO of ESYD