CYPRUS ORGANIZATION FOR THE PROMOTION OF QUALITY
CYPRUS ACCREDITATION BODY

ACCREDITATION CERTIFICATE no. *L072-3*

The Board of Governors
of the Cyprus Organization for the Promotion of Quality
acting as the authorized Cyprus Accreditation Body
according to the Article 7 of the Law 156(I)/2002

grants accreditation to

the Clinical Laboratory M.P.N Unilab Ltd

in Nicosia

which has been assessed according to the Accreditation Criteria for Testing Laboratories as defined in the standard

CYS EN ISO 15189:2012

as **competent to perform the Methods** defined in the Scope of Accreditation referred to in the **Annex** of this certificate; the said Annex represents inextricable part of the certificate. The **Accreditation Scope** can only be modified after a decision of the Cyprus Accreditation Body.
CYS-CYSAB is a signatory of the *European co-operation for Accreditation Multilateral Agreement (EA-MLA)* for accreditation in this field.

The current Accreditation Certificate, no. *L072-3* **is issued on 25 July 2023 and is valid from the 9th June 2023 until the 8th June 2027.**

Accreditation was granted for the first time on the **9th June 2015**.

Antonis Ioannou
Director

Date: 25 July 2023

This laboratory is accredited in accordance with the recognised International Standard ISO 15189:2012. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management System (ISO-ILAC-IAF Communiqué, January 2015).

CYPRUS ORGANIZATION FOR THE PROMOTION OF QUALITY
CYPRUS ACCREDITATION BODY

Annex
to the Accreditation Certificate no. L072-3

SCOPE OF ACCREDITATION
for

M.P.N Unilab Ltd, Clinical Laboratory

Valid as from the 9th June 2023 until the 8th June 2027

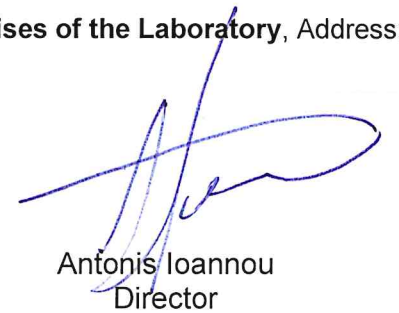
Materials /Products tested	Types of test / Properties measured	Applied methods / Techniques used
BIOCHEMISTRY TESTS		
	Determination of 31 parameters	**Cobas Integra 400 Plus**
Serum / Plasma	1. Alanine Aminotransferase (ALT/SGPT)	IFCC - Without Pyridoxal
	2. Aspartate Aminotranferase (AST/SGOT)	IFCC - Without Pyridoxal
	3. γ-Glutamyl-Transferase (GGT)	IFCC - Enzymatic Colorimetric
	4. Lactate Dehydrogenase (LDH)	IFCC - Reaction L→P
	5. Total Bilirubin (T-BIL)	DIAZO method
	6. Direct Bilirubin (BIL-D)	DIAZO method
	7. Indirect Bilirubin (I-BIL)	Calculation from T-BIL and BIL-D
	8. Cholesterol (Chol)	Enzymatic Reaction CHOD/PAP
	9. Creatinine Kinase (CK2)	CK-NAC-IFCC UV-TEST
	10. Iron (Fe)	Colorimetric Reaction with Ferrozine
	11. Triglycerides (Tri)	Enzymatic Colorimetric GPO/PAP
	12. High-density lipoprotein (HDL)	Enzymatic Colorimetric (C4)
	13. Unsaturated Iron Binding Capacity (UIBC)	Colorimetric with Ferrozine
	14. Total Iron Binding Capacity (TIBC)	Automatic calculation from Fe and UIBC
	15. C-Reactive Protein (CRP)	Particle Enhanced Turbidimetric Assay
	16. Rheumatoid Factor (RF)	Immunoturbidimetric
	17. Pseudocholinesterase (CHE)	Colorimetric with catalytic activity of cholinesterase
	18. Low-density lipoprotein (LDL)	Automatic calculation from Chol, Tri and HDL
	19. Atherogenic index (Chol/HDL)	Automatic calculation from Chol and HDL
Serum	20. Alkaline Phosphatase (ALP)	IFCC – Colorimetric
Serum / Plasma / Urine	21. Albumine (Alb)	Colorimetric Bromocresol green
	22. Calcium (Ca)	Colorimetric with cresolphthalein
	23. Creatinine (Creat)	Kinetic Jaffe Reaction
	24. Magnesium (Mg)	Colorimetric
	25. Phosphates (Phos)	Colorimetric
	26. Uric Acid (UA)	Enzymatic Colorimetric
	27. Urea (BUN)	Kinetic with UREASE
	28. Amylase (AMS)	IFCC – Colorimetric
	29. Glucose (Glu)	Enzymatic with hexokinase
	30. Total Proteins (TP)	Colorimetric biuret
	31. Globulins	Automatic calculation from TP and Alb
	Determination of 3 parameters	**SMART LYTE PLUS BY DIAMOND**
Serum / Urine	1. Sodium – Na^+	ISE - (ION SELECTIVE ELECTRODE)
	2. Potassium – K^+	
	3. Chloride – Cl^-	

Materials /Products tested	Types of test / Properties measured	Applied methods / Techniques used
HAEMATOLOGY TESTS		
	Determination of 22 parameters	**Pentra 80**
Blood	1. White Blood Cells (WBC)	Electronic Impedance Variation
	2. Red Blood Cells (RBC)	
	3. Haemoglobin (HGB)	Cyanmethemoglobin colorimetric
	4. Haematocrit (HCT/ PCV)	Electronic Integration
	5. Mean Cell Volume (MCV)	Automatic calculation from HCT and RBC
	6. Mean Corpuscular Haemoglobin (MCH)	Automatic calculation from HGB and RBC
	7. Mean Cell Haemoglobin Concentration (MCHC)	Automatic calculation from HGB and HCT
	8. Mean Platelet Volume (MPV)	Automatic calculation from PCT and PLT
	9. Red Distribution Width CV (RDW-cv)	Automatic calculation from RBC and MCV
	10. Plateletcrit (PCT)	Automatic calculation from MPV and PLT
	11. Platelet Distribution Width (PDW)	Automatic calculation from histogram PLT
	12. Platelets (PLT)	Impedance change Variation
	13. Neutrophils %	Impedance Variation / Optical Transmission Scattering
	14. Lymphocytes %	
	15. Monocytes %	
	16. Eosinophils %	
	17. Basophils %	
	18. Neutrophils (absolute number)	Automatic calculation from % measurements
	19. Lymphocytes (absolute number)	
	20. Monocytes (absolute number)	
	21. Eosinophils (absolute number)	
	22. Basophils (absolute number)	
	Determination of 12 parameters	**DYMIND DH76**
Blood	1. White Blood Cells (WBC)	Electronic Impedance Variation Laser-Based-Flow Cytometry
	2. Red Blood Cells (RBC)	Impedance method
	3. Haemoglobin (HGB)	Cyanmethemoglobin Colorimetric Photometry
	4. Haematocrit (HCT/ PCV)	Electronic Integration
	5. Mean Cell Volume (MCV)	Automatic calculation from HCT and RBC
	6. Mean Corpuscular Haemoglobin (MCH)	Automatic calculation from HGB and RBC
	7. Mean Cell Haemoglobin Concentration (MCHC)	Automatic calculation from HGB and HCT
	8. Mean Platelet Volume (MPV)	Automatic calculation from PCT and PLT
	9. Red Distribution Width CV (RDW-cv)	Automatic calculation from RBC and MCV
	10. Plateletcrit (PCT)	Automatic calculation from MPV and PLT
	11. Platelet Distribution Width (PDW)	Automatic calculation from histogram PLT
	12. Platelets (PLT)	Impedance change Variation
IMMUNOASSAY TESTS		
	Determination of 19 parameters	**Elecsys 2010 (ECLIA)**
Serum / Plasma	1. Luteinising Hormone (LH)	Sandwich Principle
	2. Tumor Marker CA-125 (CA-125)	
	3. Follicle Stimulating Hormone (FSH)	
	4. Thyrotropin Hormone (TSH)	
	5. Total Prostatic Specific Antigen (TPSA)	
	6. Prolactin (PRL)	
	7. Ferritin (FER)	
	8. Carcinoembryonic Antigen (CEA)	
	9. Free Prostatic Specific Antigen (FPSA)	
	10. Insulin	
	11. Anti-Human Immunodefficiency Virus 1&2 (HIV 1&2 Ab)	

Materials /Products tested	Types of test / Properties measured	Applied methods / Techniques used
	12. Hepatitis B Surface antigen (HbsAg)	
	13. Hepatitis C Virus Antibody (Anti HCV)	Sandwich Principle
	14. Insulin Resistance	Automatic calculation from GLU and Insulin
	15. FPSA/ TPSA Index	Calculation from FPSA and TPSA
	16. Free Triidothyronine (FT3)	Competition Principle
	17. Free Thyroxine (FT4)	
	18. Estradiol (E2)	
	19. Testosterone (Testo)	
BIOLOGICAL SAMPLE COLLECTION		
Whole Blood / Plasma	1. Sample Collection 2. Sample Preparation 3. Transmission of Result	1. WP1 & WP2 2. WP3 3. WP4

All reports should be signed by Ms Pavlina Lena and Ms Mariella Kasapi.

Comments
This Annex refers only to tests and sampling carried out in the **premises of the Laboratory**, Address: ***19, Themistokli Dervi, (flat 31), 1066 Nicosia***



Antonis Ioannou
Director

Date: 25 July 2023