Hellenic Accreditation System

Annex I1/5 to the Certificate No. 1130-3

SCOPE of ACCREDITATION

of the

Laboratory of Quality of Health Services-ELQA Schemes

of

University of Applied Sciences of Thessaly

as a

Proficiency Testing Provider

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum in lyophilized state	C-Reactant Protein, High-sensitivity C-Reactant Protein, Lactic Acid, Albumin, Alcaline Phosphatase, Amylace, Calcium, Gamma-glutamyltrasnferase, Glucose, Lactate Dehydrogenase, Bicarbonates, Pottasium, Creatine, Creatine Kinase, Lithium, Lipase, Magnesium, Sodium, Total Serum Protein, Total Serum Cholerithrine, Urea, Uric Acid, Iron, Alanine Transaminase, Aspartic Acid Transaminase, Triglycerides, High-density Lipoprotein, Low-density Lipoprotein, Ferritin, Phosphorus, Copper, Chloride ions, Cholesterol, Conjugated Bilirubin, Bilirubin, Total Serum Cholinesterase (pseudocholinesterase), Total Iron-Binding Capacity, Proalbumine, Hydroxy-butyric Dehydrogenase, Alpha-Lipoprotein, 6-Phospotic Glucose Dehydrogenase	Clinical Biochemistry Tests

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum in lyophilized state	Anti-thyroglobulin Antibodies (A-TG), Thyroid Antibodies (Anti-TPO), B_{12} Vitamine, Free Thyroxine, Free Triiodothyronine, Follicle-Stimulating Hormone, Thyroid-Stimulating Hormone, Thyroglobulin, Thyroxine, Insulin, Cortizol, Estradiol, Total E Anosospherine, Progesterone, Prolactine, Testosterone, Triiodothyronine, Folic Acid, Luteinizing Hormone, Ferritin, Human Chorionic Gonadotropin, Adrenocorticotropic Hormone, Androstenedione, Angiotensin, Aldosterone, Thyroxine-binding Spherene, Transferrrin Vitamin D (25-OH-D3) D-Dimers Australian Antigen (HBsAg), Rubella IgG Antibodies, Rubella IgM Antibodies, HIV I & II Antibodies, Toxoplasomsis IgG Antibodies, Cytomegalovirus IgG Antibodies, Cytomegalovirus IgM Antibodies, Reumatoid Factor (RF/RA-Test), Mono-Test, Antistreptolysine O, IgG Anosospherine, IgA Anosospherine, IgM Anosospherine, IgE Anososperine, Complement Proteins (C3, C4), Transferrin, β2-Microspherene, TMAB, A1-Glycoprotein, Antinucleic Antibodies (ANA), Antimitochondriac Antibodies (AMA), DsDNA Antibodies, ENA Antobodies (SS-A, SS-B, RNP, Sm), Scleroderm Antobodes (Scl-70), ENA Jo1 Antobodies, β2-Glycoprotein I IgG & IgM Antibodies, Cardiolipin IgG & IgM Antibodies (αCL), Herpes Simplex 1 & 2 IgG & IgM Antibodies, Hepatitis C Antibodies (HCVAb/Anti-HCV), Hepatitis B Antibodies (Anti-HBs & Anti-HBc), Hepatits A Antibodies (Anti-HAV IgG, Treponema pallidum abs, ASTO A-Fetoprotein, Prostate-Specific Antigen, Free Prostate Antigen, Cancer 125 Antigen, Cancer 15-3 Antigen, Cancer 19-9 Antigen, Carcinoembryonic Antigen, Cancer Antigen 50, Cancer Antigen 72.4	Immunological Tests-Vitamin D (25-OH-D3)-Special Protein Tests, Tumor Markers

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Blood serum in lyophilized state	Creatokinase, Isozyme MB of Creatokinase activity, Isozyme MB of Creatokinase mass, Myospherene, Homocysteine, Troponine I, Troponine T, Natriuretic peptide, Natriuretic peptide type pro-B	Heart Marker Tests
Blood plasm in lyophilized state	INR Prothrombine time, Prothrombine Activity, Activated Partial Thromboplastin, Activated Partial Thromboplastin Time, Antobrombine III Activity, Antithrombine III Concentration, Fibrinogen	Coagulation Tests
Lyophilized Sample	HBA1c	HbA1c Tests
Total Blood	White Blood Cells, Total, Red Blood Cells, Hemoglobin, Hematocrit, Red Blood Cell Average Volume, Hemoglobin Average Volume, Hemoglobin Average Density, Distribution range of the size of Red blood cells (standard deviation), Distribution range of the size of Red blood cells (coefficient of variation), Distribution range of the size of platelets, Average platelet volume, Platelet number, White blood cell type, Erythrocyte sedimentation rate	Blood Sampling Tests
Urine Lyophilized Sample	Hemoglobin, Amorphous Salts, pH, Albumin, Ascorbic Acid, Mucus, Epithelial cells/blood, Ketone/acetone, Citric ions, Cortisol, Cylinders, Crystals, White blood cells/Leukocyte esterase, Magnesium, Microalbumin, Microorganisms, Nitric ions, Nitrate ions, Proteins, Pus cells, Blood Sugar, Cholerythrine, Glucose, White blood cells, Specific weight, Urobilinogen, Calcium, Potassium, Creatine, Sodium, Urea, Ureic Acid, Inorganic Phosphorus, Chloride Ions	Urine Tests
Lyophilized Sample	Amikacin, Valproic Acid, Vancomycin, Gentamicin, Theophylline, Carbamazepine, Caffeine, Lithium, Methotrexate, Paracetamol, Salicylic ions, Tobramycin, Phenobarbital, Phenytoin, Amitriptyline, Lidocaine, Procainamide	Therapeutical Substances of Drugs

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Water (Tap water, surface water, pool water, bottled water, hemodialysis water) (Solution)	Conductivity, Alkalinitym Ammonium ions, Aluminum, Arsenic, Calcium, Sulfuric ions, Milkiness, Manganese, Magnesium, Nitric ions, Nitrate ions, Total Solid Solutes, Total Hardness, Total Phosphorus, Phosphoric ions, Iron, Residual Chlorine, Chloride ions, Color, Hexavalent chromium, pH, Nitrogen (by Kjeldahl), Potassiums, Sodium, Total Chlorine, Boron, Smell, Taste, Fluoride ions, Chloride, Perchlorates, Chlorates, Chlorites, Hypochlorites, Stibium, Vanadium, Barium, Cadmium, Tin, Cobalt, Lithium, Molybdenum, Lead, Nickel, Selenium, Iron, Strontium, Copper, Total Chromium, Mercury, Zinc, Silica dioxide, Bisphenol A, Microcystin-LR, Acrylamide, Cyanuric Acid	Water-Physicochemical Parameters
Water (Tap water, surface water, pool water, bottled water, hemodialysis water) (Lyophilized Reference Material)	Number of colonies at 22°C,Number of colonies at 36°C, Escherichia coli, Enterococci, Faecal coliform, Pseudomonas aeruginosa, Clostridium perfringens, Staphylococcus aureus, Legionella spp., Listeria monocytogenes, Listeria spp., Sulfite-reducing Clostridia (Spores), Salmonella spp., Clostridium perfringens, Somatic coliphages, Gram Negative Bacterial Endotoxins, TOC at 20°C	Water-Microbiological Parameters
Waste (Reference Material)	Chemically required oxygen, Biochemically required oxygen, Total floating solid particles, Total nitrogen, Total Phosphorus, Nitrogen-Nitric Ions, Nitrogen-Ammonia, Phosphorus-Phosphoric ions, Total solids, Total solubilized solids, Volatile Solids, Total organic carbon, pH, Conductivity, Nitrogen (Kjeldahl), Chloride ions, Residual Chlorine, Alkalinity, Milkiness, Bromide ions, Sulfuric ions, Nitrate ions, Nitric ions, Fluoride ions, Phosphoric ions, Chloride ions, Fats & oils, Mixed Liquor Suspended Solids (MLVSS), Sludge Volume Index (SVI)	Waste-Physicochemical Parameters
Waste (Lyophilized Reference Material)	Total coliforms, Escherichia coli, Enterococci, Fecal coliform, clostridium prefringens, Salmonella spp	Waste-Microbiological Parameters

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Water, Waste, Sea Water, Surface Water, Pool Water (Solution	Stibium, Aluminum, Arsenic, Vanadium, Barium, Boron, Cadmium, Tin, Cobalt, Lithium Manganese, Molybdenum, Lead, Nickel, Selenium, Iron, Strontium, Copper, Chromium, Mercury, Zinc, Hexavalent Chromium, Silica Dioxide	Water, Waste, Sea Water, Surface Water, Pool Water – Heavy Metals
Sea Water (Lyophilized Reference Material)	pH, Conductivity, Color, TDS, Saltines, Alkalinity, Total Nitrogen, Total Phosphorus, Biochemically required oxygen, Chemically required oxygen, Calcium, Magnesium, Potassium, Sodium, Nitric ions, Nitrate ions, Ammonium, Phosphoric ions, Sulfuric ions, Chloride ions	Sea Water – Physicochemical Testing
Sea Water (Lyophilized Reference Material)	Escherichia Coli, Enterococci, Total coliforms, Colony Number at 22ºC, Colony Number at 36ºC, Intestinal enterococci, Clostridium perfringens, Pseudomonas aeruginosa, Legionella spp., Staphylococcus aureus	Sea Water – Microbiological Testing
Food (Lyophilized Reference Material)	Ash, Total Fat, Proteins, Humidity, Sugars, Total Dietary Fiber, Calorific value, Salt calculation, Water concentration, Arsenic, Calcium, Sulfuric ions, Cadmium, Potassium, Tin, Manganese, Molybdenum, Lead, Sodium, Nitric Ions, Nitrate Ions, Iron, Selenium, Mercury, Zinc	Food – Physicochemical Testing
Food (Lyophilized Reference Material)	Aerobic Plate Count, Total Coliform, Rapid Coliform, Escherichia coli, Enterobacteriaceae, Staphylococcus aureus, Yeast, Mold, Campylobacter spp., Campylobacter, Pseudomonas spp., Bacillus cereus, Enterobacter (Cronobacter) sakazakii, Clostridium perfringens, S.aureus, Salmonella spp., Salmonella enterica / enteritis, Listeria spp., Listeria monocytogenes, Ισταμίνη, Aerobic Lactic Acid Bacteria, Marteilia refringens, Acrylamides, Benzoic Acid, Coumarin, Propionic Acid, Sorbic Acid	Food – Microbiological Testing
Neutralized colony (Lyophilized Reference Material)	TOC 30oC – Surface, St. Aureus – Surface, Salmonella – Surface, Listeria – Surface, Total coliforms – Surface, E. coli (Ecoli) – Surface, Yeasts – Surface, Fungus – Surface, Total Enterobacteriaceae– Surface, Legionella – Surface, Campylobacter spp.-Surface	Laboratory Environmental Conditions

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Honey (Honey Sample)	Humidity, Conductivity, Sugars, Hydroxy-methyl-furfural – HMF, Separation, Proline, Pollen grain (number of pollen grains per 10 gr sample), pH, Acidity, Non-soluble substances, Color, Ash, Antibiotics	Honey Quality Test
Olive Oil (Olive Oil sample)	Acidity, Number of peroxides, , K232, K270, K266, K268, K232, K270, K274 ΔK, Humidity, Waxes, Fat Acids and trans isomers, ΔECN42	Olive Oil Quality Test
Detection / Determination Salmonella spp in Animal Waste and Samples from the Primary Sector Stages (Lyophilized Reference Material)	Salmonella spp	Detection / Determination Salmonella spp in Animal Waste and Samples from the Primary Sector Stages
Milk (Reference Material)	Fat, Protein, Casein, Lactose, Urea, Melting Point, pH, Solid Residue without Fat	Milk – Physicochemical Testing
Milk (Reference Material)	Body Cells	Milk – Body Cell Testing
Milk (Reference Material)	Kjeldahl Nitrogen	Milk - Kjeldahl Nitrogen Testing
Milk (Reference Material)	Antibiotics	Milk – Antibiotics Testing
Milk (Reference Material)	TOC 30ºC, Total Coliforms, E.coli, Enterobacteriaceae, Staphylococcus aureus.	Milk – Microbiological Testing
Milk (Reference Material)	% Goat Milk in Lamb Milk	Milk – Rigging Testing
Sampling – Drinking Water, Waste, Surface Water, Pool Water, Sea Water	Physicochemical testing (determination of three (3) parameters representative of quality)	Sampling – Physicochemical testing of Drinking Water, Wastes, Surface Water, Pool Water, Sea Water
Sampling – Drinking Water, Waste, Surface Water, Pool Water, Sea Water	Microbiological testing (determination of two (2) parameters representative of quality)	Sampling – Microbiological testing of Drinking Water, Wastes, Surface Water, Pool Water, Sea Water

Site of assessement: of Provider: TEI Thessalias, 41100 Larissa, Greece
Approved signatory: **A. Papaioannou**
The Accreditation Certificate No. **1130-3** to ELOT ISO/IEC 17043:2010, is valid until 19.10.2030.

Athens, 20.11.2025

Konstantinou Evangelos Apostolos
CEO of E.SY.D.