Hellenic Accreditation System

Annex F1/7 to the Certificate No. **851**-3

SCOPE of ACCREDITATION

of the

DNA Analysis Laboratory

of

Athens Department

of

Legal Medicine Ministry of Justice

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Body Fluids – Any Material	**Forensic Examination and Analysis**	
	1. Search for blood, saliva, semen and cellular debri	Method (Π.15) for visual examination and UV light (Crimelite)
	2. Recovery of biological material for DNA analysis	Method (Δ.530) for cutting, swabbing
	3. Presumptive testing for blood detection	Method (Π.13) - Peroxidase Detection (Kastle-Meyer)
		Confirmatory method for blood detection using Hem Direct kit (SERATEC - Π.16)
	4. Presumptive testing for semen detection	Method (Π.10) - Acid Phosphatase Detection
	5. Confirmative testing for semen detection	PSA detection using SEMIQUANT Kit (SERATEC-Π.11)
		Microscopy for identification of spermatozoa using HEMACOLOR (Π.18)
	6. Presumptive testing for saliva detection	α-Amylase detection using α-Amylase Saliva Test kit (SERATEC-Π.14)

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Biological testing		
Body Fluids – Bones – Tissues (whole blood, blood stains, buccal swabs, hair, semen, saliva)	**Forensic Testing** 1. Human DNA profiling with the analysis of Short Tandem Repeats (STRs) D10S1248, vWA, D16S539, D2S1338, Amelogenin, D8S1179, D21S11, D18S51, D22S1045, D19S433, TH01, FGA, D2S441, D3S1358, D1S1656, D12S391, SE33	1) Manual DNA Extraction with: a. DNA IQ Kit – Promega (Π.22, Π.24, Π.25, Π.26, Π.27, Π.28) b. DIFFEREX Kit – Promega (Π.23), c. Chelex method – (Π.21) 2) Automated DNA Extraction using Maxwell FSC (Π.31, Π.32) 3) DNA Quantitation with Applied Biosystems Quantifier Duo DNA Quantification Kit using Applied Biosystems 7500 RTPCR System (Π.30) 4) PCR amplification with Applied Biosystems kits: NGM Select (Π.40) using Applied Biosystems GeneAmp PCR System 9700 5) Fragment analysis and profile designation using Applied Biosystems SeqStudio Genetic Analyzer and Genemapper ID-X Software. Analysis and comparison of generated profiles (Π.51)

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Body Fluids – Bones – Tissues (whole blood, blood stains, buccal swabs, saliva, hair, semen, saliva)	2. DNA profiling with the analysis of human Short Tandem Repeat (STR) loci on the Y chromosome DYS576, DYS389I, DYS635, DYS389II, DYS627, DYS460, DYS458, DYS19, Y GATA H4, DYS448, DYS391, DYS456, DYS390, DYS438, DYS392, DYS518, DYS570, DYS437, DYS385a/b, DYS449, DYS393, DYS439, DYS481, DYF387S1, DYS533	1) Manual DNA Extraction with: a. DNA IQ Kit – Promega (П.22, П.24, П.25, П.26, П.27, П.28) b. DIFFEREX Kit – Promega (П.23) c. Chelex method – (П.21) 2) Automated DNA Extraction using Maxwell FSC (П.31, П.32) 3) DNA Quantitation with Applied Biosystems Quantifier Duo DNA Quantification Kit using Applied Biosystems 7500 RTPCR System (П.30) 4) PCR amplification with Applied Biosystems kits Y-Filer Pus using Applied Biosystems GeneAmp PCR System 9700 (П.43) 5) Fragment analysis and profile designation using Applied Biosystems SeqStudio Genetic Analyzer and Genemapper ID-X Software. Analysis and comparison of generated profiles/ haplotypes (П.51)

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Body Fluids – Bones – Tissues (whole blood, blood stains, buccal swabs, saliva, hair)	**Paternity and Relationship Testing** Human DNA profiling with the analysis of Short Tandem Repeats (STRs) and human Short Tandem Repeat (STR) loci on the Y and X chromosome D10S1248, vWA, D16S539, D2S1338, Amelogenin, D8S1179, D21S11, D18S51, D22S1045, D19S433, TH01, FGA, D2S441, D3S1358, D1S1656, D12S391, SE33, D7S820, CSF1PO, D13S317, TROX, D5S818. DYS576, DYS389I, DYS635, DYS389II, DYS627, DYS460, DYS458, DYS19, Y GATA H4, DYS448, DYS391, DYS456, DYS390, DYS438, DYS392, DYS518, DYS570, DYS437, DYS385a/b, DYS449, DYS393, DYS439, DYS481, DYF387S1, DYS533 DXS10148, DXS101035, DXS8378, DXS7132, DXS10079, DXS10074, DXS10103, HPRTB, DXS10101, DXS10146, DXS10134, DXS7423	1) Manual DNA Extraction with: a. DNA IQ Kit – Promega (П.22, П.24, П.25, П.26, П.27, П.28) b. Chelex method – (П.21) c. Processing using Prep-n-Go Buffer for buccal swabs (Applied Biosystems П.29) 2) Automated DNA Extraction using Maxwell FSC (П.31, П.32) 3) DNA Quantitation with Applied Biosystems Quantifier Duo DNA Quantification Kit using Applied Biosystems 7500 RTPCR System (П.30) 4) PCR amplification with Applied Biosystems kits a. NGM Select (П.40) b. Globalfiler Express (П.44) c. Y-Filer Plus (П.43) d. Investigator Argus X12 QS kit (Qiagen П.45) using Applied Biosystems GeneAmp PCR System 9700 5) Fragment analysis for profile / Y haplotype designation using using Applied Biosystems SeqStudio Genetic Analyser and Genemapper ID-X Software. Analysis and comparison of generated profiles (П.51).
Body fluids (buccal swabs)	Sample preparation for Direct PCR	Method: Processing using Prep-n-Go Buffer (Applied Biosystems П.29)

Materials/Products tested	Types of test/Properties measured	Applied methods/Techniques used
Isolated DNA/ Samples processed using Prep-n-Go Buffer	PCR amplification of 25 polymorphic regions Y STR PCR amplification of 21 polymorphic autosomal regions STR, Y STR and Amelogenin	Y-Filer Plus kit (Applied Biosystems Π.43) GlobalFiler Express kit (Applied Biosystems Π.44)

Site of assessment: **Laboratory permanent premises: 10 Anapauseos str., 11636, Athens, GREECE.**
Approved signatories: **I. Skitsa, A. Ampati.**

This scope of Accreditation replaces the previous one dated 30.06.2023.
The Accreditation Certificate No.**851**-3, to ELOT EN ISO/IEC 17025:2017, is valid until 17.12.2024.

Athens, 20.03.2024

Christos Nestoras
CEO of ESYD