


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>2773</b>  <b>Accredited to ISO/IEC 17025:2017</b>	<b>Alpha BioLaboratories Analytical Ltd</b>	
	<b>Issue No: 055   Issue date: 05 August 2025</b>	
	<b>14 Webster Court Carina Park Warrington WA5 8WD</b>	<b>Contact: Rachel Flanagan Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: rflanagan@alphabiolabs.com Website: www.alphabiolabs.co.uk</b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
14 Webster Court Carina Park Warrington WA5 8WD  Contact: Rachel Flanagan Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: rflanagan@alphabiolabs.co.uk	Work Place Drugs Analysis/Medical and Legal Analysis	A
1 Webster Court Carina Park Warrington WA5 8WD  Contact: Rachel Flanagan Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: rflanagan@alphabiolabs.co.uk	Relationship Analysis	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS/TISSUES	<u>Relationship Analysis</u>		
Swabs (Buccal cells) Nail Toothbrushes	Short Tandem Repeat (STR) DNA profiling for relationship testing for: <ul style="list-style-type: none"> <li>- Paternity</li> <li>- Maternity</li> <li>- Sibling</li> <li>- Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin)</li> <li>- Y-chromosome Analysis</li> </ul>	Documented in-house methods [SOP ref: PRC565, PRC 812] using manual/automated extraction: <ul style="list-style-type: none"> <li>- Promega SwabSolution</li> <li>- Prep-N-Go</li> <li>- QIAmp DNA Investigator (nail only)</li> </ul>	B
		Documented in-house methods [SOP ref: PRC521, PRC 545] using manual/automated amplification and the following chemistry: <ul style="list-style-type: none"> <li>- Fusion STR Multiplex</li> <li>- Verifiler Express</li> <li>- HDPLEX</li> <li>- SureID® 27 Comp</li> <li>- Yfiler Plus</li> </ul>	B
		Documented in-house methods [SOP ref: PRC540, PRC569, PRC570] using electrophoresis: <ul style="list-style-type: none"> <li>- Applied Biosystems 3500xl Genetic Analyser©</li> </ul>	B
	<u>Related Opinions and Interpretation</u>		
	Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile Information from within submitted cases	Documented in-house methods for Genetic Characterisation using: <ul style="list-style-type: none"> <li>- Familias software</li> </ul>	B



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BODY FLUIDS/TISSUES (cont'd)	<u>Relationship Analysis (cont'd)</u>		
Plasma from maternal venous blood	Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR) for relationship testing for: - Paternity	Documented in-house methods [SOP ref: PRC 081] for Massively Parallel Sequencing (MPS): Sample amplification, enrichment, library preparation, purification and normalisation using - ForenSeq™ DNA Signature Prep Kit - ForenSeq™ MainstAY Kit	B
		Documented in-house methods [SOP ref: PRC 047 and 875] for ccfDNA extraction and quantification using: - Promega Maxwell cfDNA kit on Maxwell instrument - Qiagen ccfDNA MinElute kit - Quantus Fluorometer	B
	<u>Related Opinions and Interpretation</u>		
	Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile Information from within submitted cases	Documented in-house methods [SOP ref: PRC 092] for genetic characterisation using: - Forenseq™ Universal Analysis Software (Windows 10) v1.3 and v2.0	B



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis</u>		
Hair	<p>Presumptive screening for the presence of the following drugs (cut-off limit)</p> <p>Morphine (0.2ng/mg)  Dihydrocodeine (0.2ng/mg)  Codeine (0.2ng/mg)  6-Acetylmorphine (0.2ng/mg)  Methamphetamine (0.2ng/mg)  MDMA (0.2ng/mg)  Benzoyllecgonine (0.05ng/mg)  Cocaine (0.5ng/mg)  Cocaethylene (0.05ng/mg)  Norcocaine (0.05ng/mg)  Ketamine (0.1ng/mg)  Methadone (0.2ng/mg)  Diazepam (0.05ng/mg)  Temazepam (0.05ng/mg)  Alprazolam (0.05ng/mg)  Nitrazepam (0.05ng/mg)  THC (0.05ng/mg)  AEME (0.1ng/mg)  Chlordiazepoxide (0.05ng/mg)  Tramadol (0.2ng/mg)  Nortramadol (0.2ng/mg)</p>	<p>Documented in-house method [SOP ref: PRC 006, PRC014, PRC 585, PRC 586 and PRC 588] using methanol extraction and LC-MS/MS</p>	A



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>		
Hair	<p>Presumptive screening for the presence of the following drugs (cut-off limit)</p> <p>Morphine (0.2 ng/mg)  Dihydrocodeine (0.2 ng/mg)  Codeine (0.2 ng/mg)  6-Acetylmorphine (0.2 ng/mg)  Amphetamine (0.2 ng/mg)  Methamphetamine (0.2 ng/mg)  MDMA (0.2 ng/mg)  Benzoyllecgonine (0.05 ng/mg)  Cocaine (0.5 ng/mg)  Cocaethylene (0.05 ng/mg)  Norcocaine (0.05 ng/mg)  Ketamine (0.1 ng/mg)  Methadone (0.2 ng/mg)  EDDP (0.05 ng/mg)  Diazepam (0.05 ng/mg)  Nordiazepam (0.05 ng/mg)  Temazepam (0.05 ng/mg)  Alprazolam (0.05 ng/mg)  Nitrazepam (0.05 ng/mg)  THC (0.05 ng/mg)  AEME (0.1 ng/mg)  Chlordiazepoxide (0.05 ng/mg)  Zolpidem (0.05 ng/mg)  Tramadol (0.2 ng/mg)  Nortramadol (0.2 ng/mg)  Oxycodone (0.2 ng/mg)</p>	<p>Documented in-house method [SOP ref: PRC 900, PRC 901 and PRC 902] using methanol extraction and LC-MS/MS</p>	A



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>		
Hair	<p>Quantitative analysis of the following drugs (range):</p> <p>Morphine (0.025-5.0ng/mg)  Dihydrocodeine (0.025-5.0ng/mg)  Codeine (0.025-5.0ng/mg)  6-Acetylmorphine (0.025-5.0ng/mg)  Methamphetamine (0.025-5.0ng/mg)  MDMA (0.025-5.0ng/mg)  Benzoylecgonine (0.005-1.0ng/mg)  Cocaine (0.05-10.0ng/mg)  Cocaethylene (0.005-1.0ng/mg)  Norcocaine (0.005-1.0ng/mg)  Ketamine (0.025-5.0ng/mg)  Methadone (0.025-5.0ng/mg)  Diazepam (0.025-5.0ng/mg)  Temazepam (0.025-5.0ng/mg)  Alprazolam (0.025-5.0ng/mg)  Nitrazepam (0.025-5.0ng/mg)  THC (0.025-5.0ng/mg)  AEME (0.025-5.0ng/mg)  Chlordiazepoxide (0.025-5.0ng/mg)  Tramadol (0.085 - 6.0ng/mg)  Nortramadol (0.085 - 6.0ng/mg)</p>	<p>Documented in-house method [SOP ref PRC 006, PRC014: PRC 585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS</p>	A



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>		
Hair	Quantitative analysis of the following drugs (range):  Morphine (0.025 - 5.0 ng/mg) Dihydrocodeine (0.025 - 5.0 ng/mg) Codeine (0.025 - 5.0 ng/mg) 6-Acetylmorphine (0.025 - 5.0 ng/mg) Amphetamine (0.1 - 5.0 ng/mg) Methamphetamine (0.025 - 5.0 ng/mg) MDMA (0.025 - 5.0 ng/mg) Benzoyllecgonine (0.005 - 1.0 ng/mg) Cocaine (0.05 - 10.0 ng/mg) Cocaethylene (0.005 - 1.0 ng/mg) Norcocaine (0.005 - 1.0 ng/mg) Ketamine (0.025 - 5.0 ng/mg) Methadone (0.025 - 5.0 ng/mg) EDDP (0.005 - 1.0 ng/mg) Diazepam (0.025 - 5.0 ng/mg) Nordiazepam (0.01 - 2.0 ng/mg) Temazepam (0.025 - 5.0 ng/mg) Alprazolam (0.025 - 5.0 ng/mg) Nitrazepam (0.025 - 5.0 ng/mg) THC (0.025 - 5.0 ng/mg) AEME (0.025 - 5.0 ng/mg) Chlordiazepoxide (0.025 - 5.0 ng/mg) Zolpidem (0.025 - 5.0 ng/mg) Tramadol (0.085 - 6.0 ng/mg) Nortramadol (0.085 - 6.0 ng/mg) Oxycodone (0.025 - 5.0 ng/mg)	Documented in-house method [SOP ref: PRC 900, PRC 901 and PRC 902] using methanol extraction and LC-MS/MS	A
Hair	Presumptive screening for the presence of Ethyl Glucuronide (cut-off limit 30 pg/mg)	Documented in-house method [SOP ref: PRC 006, 008, 801, 804 and 806] using LC-MS/MS	A
Hair	Quantitative analysis of Ethyl Glucuronide (range 2 – 700 pg/mg)	Documented in-house method [SOP ref: PRC 006, 008, 801, 804 and 806] using LC-MS/MS	A



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BODY FLUIDS/TISSUES (cont'd)  Oral Fluids (Quantisal Collection Device)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>  Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range]  <b>Opiates Group:</b> Morphine (15ng/ml); [5-40ng/ml] Dihydrocodeine (15ng/ml) [5-40ng/ml] Codeine (15ng/ml); [5-40ng/ml] 6-monoacetylmorphine (2ng/ml); [0.8-6.4ng/ml] Methadone (20ng/ml); [7-56ng/ml] EDDP (20ng/ml); [7-56ng/ml]  <b>Cocaine and Metabolites:</b> Benzoylecgonine (8ng/ml); [2.5-20ng/ml] Cocaine (8ng/ml); [2.5-20ng/ml] Cocaethylene (8ng/ml); [2.5-20ng/ml] Norcocaine (8ng/ml); [2.5-20ng/ml]  <b>Amphetamines Group:</b> Amphetamine (15ng/ml); [5-40ng/ml] Methamphetamine (15ng/ml); [5-40ng/ml] MDA (15ng/ml); [5-40ng/ml] MDMA (15ng/ml); [5-40ng/ml]	Documented in-house methods [SOP ref: PRC 826] using SLE and LC-MS/MS	A





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BODY FLUIDS/TISSUES (cont'd)  Oral Fluids (Quantisal Collection Device)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>  Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range]  <b>Benzodiazepines Group:</b> Diazepam (3ng/ml); [1-8ng/ml] Nordazepam (3ng/ml); [1-8ng/ml] Temazepam (3ng/ml); [1-8ng/ml] Oxazepam (3ng/ml); [1-8ng/ml] Alprazolam (3ng/ml); [1-8ng/ml] Nitrazepam (3ng/ml); [1-8ng/ml]  <b>Canabinoids Group:</b> d9-tetrahydrocannabinol (THC) (2ng/ml); [0.7-5.6ng/ml] Cannabdiol (CBD) (2ng/ml); [0.7-5.6ng/ml]  <b>Other drugs:</b> Ketamine (15ng/ml); [5-40ng/ml] Tramadol (5ng/ml); [1.5-12ng/ml]	Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS	A



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BODY FLUIDS/TISSUES (cont'd)  Oral Fluids (Quantisal Collection Device)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>  Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range]  Opiates Group: - Morphine (15ng/ml); [1-50ng/ml] - Dihydrocodeine (15ng/ml); [1-50ng/ml] - Codeine-6-glucuronide (15ng/ml); [1-50ng/ml] - 6-Monoacetylmorphine (2ng/ml); [0.16-8 ng/ml] - Methadone (20ng/ml); [1.4-70ng/ml] - EDDP (20ng/ml); [1.4-70ng/ml] - Buprenorphine (1ng/ml); [0.08-4ng/ml] - Norbuprenorphine (1ng/ml); [0.08-4ng/ml]  Cocaine and Metabolites: - Benzoylecgonine (8ng/ml); [0.5-25ng/ml] - Cocaine (8ng/ml); [0.5-25ng/ml] - Cocaethylene (8ng/ml); [0.5-25ng/ml] - Norcocaine (8ng/ml); [0.5-25ng/ml]  Amphetamines Group: - Amphetamine (15ng/ml); [1-50ng/ml] - Methamphetamine (15ng/ml); [1-50ng/ml] - MDA (15ng/ml); [1-50ng/ml] - MDMA (15ng/ml); [1-50ng/ml]	Documented in-house methods [SOP ref: PRC 909], using LC-MS/MS	A



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END			