


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2773 Accredited to ISO/IEC 17025:2017	Alpha BioLaboratories Analytical Ltd Issue No: 054 Issue date: 17 February 2025	
	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.com Website: www.alphabiolabs.co.uk
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 Swabs (Buccal cells) Nail Toothbrushes	<u>Relationship Analysis</u> Short Tandem Repeat (STR) DNA profiling for relationship testing for: <ul style="list-style-type: none"> - Paternity - Maternity - Sibling - Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin) - Y-chromosome Analysis 	Documented in-house methods [SOP ref: PRC565, PRC 812] using manual/automated extraction: <ul style="list-style-type: none"> - Promega SwabSolution - Prep-N-Go - QIAmp DNA Investigator (nail only) 	B
		Documented in-house methods [SOP ref: PRC521, PRC 545] using manual/automated amplification and the following chemistry: <ul style="list-style-type: none"> - Fusion STR Multiplex - Verifiler Express - HDPLEX - SureID® 27 Comp - Yfiler Plus 	B
		Documented in-house methods [SOP ref: PRC540, PRC569, PRC570] using electrophoresis: <ul style="list-style-type: none"> - Applied Biosystems 3500xl Genetic Analyser© 	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"> - Familias software 	B



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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Plasma from maternal venous blood</p>	<p><u>Relationship Analysis (cont'd)</u></p> <p>Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR) for relationship testing for:</p> <ul style="list-style-type: none"> - Paternity 	<p>Documented in-house methods [SOP ref: PRC 081] for Massively Parallel Sequencing (MPS): Sample amplification, enrichment, library preparation, purification and normalisation using</p> <ul style="list-style-type: none"> - ForenSeq™ DNA Signature Prep Kit - ForenSeq™ MainstAY Kit <p>Documented in-house methods [SOP ref: PRC 047 and 875] for ccfDNA extraction and quantification using:</p> <ul style="list-style-type: none"> - Promega Maxwell cfDNA kit on Maxwell instrument - Qiagen ccfDNA MinElute kit - Quantus Fluorometer 	<p align="center">B</p> <p align="center">B</p>
	<p><u>Related Opinions and Interpretation</u></p> <p>Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile Information from within submitted cases</p>	<p>Documented in-house methods [SOP ref: PRC 092] for genetic characterisation using:</p> <ul style="list-style-type: none"> - Forenseq™ Universal Analysis Software (Windows 10) v1.3 and v2.0 	<p align="center">B</p>



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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Hair</p>	<p><u>Work Place Drugs Analysis/Medical and Legal Analysis</u></p> <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>	<p>A</p>



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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Hair</p>	<p><u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u></p> <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) Benzoylecgonine (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>	<p>A</p>



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BODY FLUIDS/TISSUES (cont'd) Hair	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u> Quantitative analysis of the following drugs (range): 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) Benzoylcegonine (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)	Documented in-house method [SOP ref PRC 006, PRC014: PRC 585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS	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) Benzoylcegonine (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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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Oral Fluids (Quantisal Collection Device)</p>	<p><u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range]</p> <p>Opiates Group: 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]</p> <p>Cocaine and Metabolites: 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]</p> <p>Amphetamines Group: Amphetamine (15ng/ml); [5-40ng/ml] Methamphetamine (15ng/ml); [5-40ng/ml] MDA (15ng/ml); [5-40ng/ml] MDMA (15ng/ml); [5-40ng/ml]</p>	<p>Documented in-house methods [SOP ref: PRC 826] using SLE and LC-MS/MS</p>	<p align="center">A</p>



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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] Benzodiazepines Group: 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] Canabinoids Group: d9-tetrahydrocannabinol (THC) (2ng/ml); [0.7-5.6ng/ml] Cannabidiol (CBD) (2ng/ml); [0.7-5.6ng/ml] Other drugs: 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
END			