


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: 049 Issue date: 15 November 2023	
	14 Webster Court Carina Park Warrington WA5 8WD	Contact: David Thomas Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: info@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
1 Webster Court Carina Park Warrington WA5 8WD Contact: David Thomas Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: info@alphabiolabs.co.uk	Work Place Drugs Analysis/Medical and Legal Analysis	A
1 Webster Court Carina Park Warrington WA5 8WD Contact: David Thomas Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: info@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>Documented in-house methods [SOP ref: PRC 092] for Massively Parallel Sequencing (MPS) of pooled libraries using</p> <ul style="list-style-type: none"> - MiSeq FGx & MiSeq FGx Control Software (MCS) 	<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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BODY FLUIDS/TISSUES (cont'd)			
Hair	<u>Work Place Drugs</u> <u>Analysis/Medical and Legal</u> <u>Analysis</u> Presumptive screening for the presence of the following drugs (cut-off limit) Benzoylecgonine (0.05ng/mg) Cocaethylene (0.05ng/mg) Cocaine (0.5ng/mg) Diazepam (0.05ng/mg) Methadone (0.2ng/mg) Methamphetamine (0.2ng/mg) Morphine (0.2ng/mg) MDMA (0.2ng/mg) 6-Acetylmorphine (0.2ng/mg) Codeine (0.2ng/mg) Dihydrocodeine (0.2ng/mg) Norcocaine (0.05ng/mg) AEME (0.1ng/mg) Alprazolam (0.05ng/mg) Temazepam (0.05ng/mg) Nitrazepam (0.05ng/mg) Chlordiazepoxide (0.05ng/mg) THC (0.05ng/mg) Ketamine (0.1ng/mg)	Documented in-house method [SOP ref: PRC 006, PRC014, PRC585, PRC 586 and PRC 588] using methanol extraction and LC-MS/MS	A
Hair	Quantitative analysis of the following drugs (range): Benzoylecgonine (0.002-1.0ng/mg) Cocaethylene (0.002-1.0ng/mg) Cocaine (0.02-10.0ng/mg) Diazepam (0.01-5.0ng/mg) Methadone (0.01-5.0ng/mg) Methamphetamine (0.01-5.0ng/mg) Morphine (0.01-5.0ng/mg) Methylamphetamine (0.01-5.0ng/mg)	Documented in-house method [SOP ref PRC 006, PRC014: PRC585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS	A



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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>Quantitative analysis of the following drugs (range) (cont'd):</p> <p>MDMA (0.01-5.0ng/mg) 6-Acetylmorphine (0.01-5.0ng/mg) Codeine (0.01-5.0ng/mg) Dihydrocodeine (0.01-5.0ng/mg) Norcocaine (0.002-1.0ng/mg) AEME (0.01-5.0ng/mg) Alprazolam (0.01-5ng/mg) Temazepam (0.01-5.0ng/mg) Nitrazepam (0.01-5.0ng/mg) Chlordiazepoxide (0.01-5.0ng/mg) THC (0.01-5.0ng/mg) Ketamine (0.01-5.0ng/mg)</p>	<p>Documented in-house method [SOP ref: PRC 006, PRC014 PRC585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS</p>	<p>A</p>



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis</u>		
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
	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
Oral Fluids (Quantisal Collection Device)	Presumptive screening for the presence of the following drugs (cut-off limit)	Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS	A
	Opiates Group: Morphine (15ng/ml) Dihydrocodeine (15ng/ml) Codeine(15ng/ml) 6-monoacetylmorphine (2ng/ml) Methadone (20ng/ml) EDDP (20ng/ml)		
	Cocaine and Metabolites: Benzoylecgonine (8ng/ml) Cocaine (8ng/ml) Cocaethylene (8ng/ml) Norcocaine (8ng/ml)		
	Amphetamines Group: Amphetamine (15ng/ml) Methamphetamine (15ng/ml) MDA (15ng/ml) MDMA (15ng/ml)		
	Benzodiazepines Group: Diazepam (3ng/ml) Nordazepam (3ng/ml) Temazepam (3ng/ml) Oxazepam (3ng/ml) Alprazolam (3ng/ml) Nitrazepam (3ng/ml)		



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>		
Oral Fluids (Quantisal Collection Device)	Presumptive screening for the presence of the following drugs (cut-off limit) Canabinoids Group: d9-tetrahydrocannabinol (THC) (2ng/ml) Cannabdiol (CBD) (2ng/ml) Other drugs: Ketamine (15ng/ml) Tramadol (5ng/ml)	Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS	A
Oral Fluids (Quantisal Collection Device)	Quantitative analysis of the following drugs: Opiates Group: Morphine (5.0 – 40ng/ml) Dihydrocodeine (5.0 – 40ng/ml) Codeine (5.0 – 40ng/ml) 6-monoacetylmorphine (6-MAM) (0.80 - 6.4ng/ml) Methadone (7.0 – 56ng/ml) EDDP (7.0 – 56ng/ml) Cocaine and Metabolites: Benzoylecgonine (2.5 – 20ng/ml) Cocaine (2.5 – 20ng/ml) Cocaethylene (2.5 – 20ng/ml) Norcocaine (2.5 – 20ng/ml) Amphetamines Group: Amphetamine (5.0 – 40ng/ml) Methamphetamine (5.0 – 40ng/ml) MDA (5.0 – 40ng/ml) MDMA (5.0 – 40ng/ml)	Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS	A



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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Oral Fluids (Quantisal Collection Device) (cont'd)</p>	<p><u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Quantitative analysis of the following drugs:</p> <p>Benzodiazepines Group: Diazepam (1.0 – 8ng/ml) Nordazepam (1.0 – 8ng/ml) Temazepam (1.0 – 8ng/ml) Oxazepam (1.0 – 8ng/ml) Alprazolam (1.0 – 8ng/ml) Nitrazepam (1.0 – 8ng/ml)</p> <p>Canabinoids Group: d9-tetrahydrocannabinol (THC) (0.7 – 5.6ng/ml)</p> <p>Cannabidiol (CBD) (0.7 – 5.6ng/ml)</p> <p>Other drugs: Ketamine (5.0 – 40ng/ml) Tramadol (1.5 – 12ng/ml)</p>	<p>Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS</p>	<p align="center">A</p>
<p align="center">END</p>			