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: 052 Issue date: 31 October 2024

 14 Webster Court
 Contact: Rachel Flanagan

 Carina Park
 Tel: +44 (0) 333 600 1300

 Warrington
 +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:

WA5 8WD

| 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 | А |
| 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 | В |

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DETAIL OF ACCREDITATION

| DETAIL OF MODILES IN COLOR | | | |
|---|--|---|------------------|
| 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 | Relationship Analysis Short Tandem Repeat (STR) DNA profiling for relationship | Documented in-house methods [SOP ref: PRC565, PRC 812] using | В |
| Toothbrushes | testing for: - Paternity - Maternity - Sibling - Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin) - Y-chromosome Analysis | manual/automated extraction: - Promega SwabSolution - Prep-N-Go - QIAmp DNA Investigator (nail only) | |
| | | Documented in-house methods [SOP ref: PRC521, PRC 545] using manual/automated amplification and the following chemistry: - Fusion STR Multiplex - Verifiler Express - HDPlex - SureID® 27 Comp - Yfiler Plus | В |
| | | Documented in-house methods [SOP ref: PRC540, PRC569, PRC570] using electrophoresis: - Applied Biosystems 3500xl Genetic Analyser© | В |
| | Related Opinions and Interpretation | | |
| | 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: - Familias software | В |
| | | <u> </u> | <u> </u> |

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| BODY FLUIDS/TISSUES (cont'd) | Relationship Analysis (cont'd) | | |
| 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 | В |
| | | 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 Documented in-house methods [SOP ref: PRC 092] for Massively Parallel Sequencing (MPS) of | В |
| | Related Opinions and Interpretation | pooled libraries using - MiSeq FGx & MiSeq FGx Control Software (MCS) | |
| | 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 | В |
| | | | |

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|--|--|---|
| Work Place Drugs Analysis/Medical and Legal Analysis | | |
| Presumptive screening for the presence of the following drugs (cut-off limit) | Documented in-house method [SOP ref: PRC 006, PRC014, PRC585, PRC 586 and PRC 588] using methanol extraction and LC- MS/MS | A |
| 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) Tramadol (0.2ng/mg) N-desmethyltramadol (0.2ng/mg) | | |
| Quantitative analysis of the following drugs (range): | Documented in-house method [SOP ref PRC 006, PRC014: PRC585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS | A |
| Benzoylecgonine (0.005-1.0ng/mg) Cocaethylene (0.005-1.0ng/mg) Cocaine (0.05-10.0ng/mg) Diazepam (0.025-5.0ng/mg) Methadone (0.025-5.0ng/mg) Methamphetamine (0.025-5.0ng/mg) Morphine (0.025-5.0ng/mg) | | |
| | measured/Range of measurement Work Place Drugs Analysis/Medical and Legal Analysis Presumptive screening for the presence of the following drugs (cut-off limit) Benzoylecgonine (0.05ng/mg) Cocaethylene (0.05ng/mg) Cocaine (0.5ng/mg) Methadone (0.2ng/mg) Methamphetamine (0.2ng/mg) Morphine (0.2ng/mg) Morphine (0.2ng/mg) Codeine (0.2ng/mg) Dihydrocodeine (0.2ng/mg) Norcocaine (0.05ng/mg) Alprazolam (0.05ng/mg) Alprazolam (0.05ng/mg) Temazepam (0.05ng/mg) Temazepam (0.05ng/mg) Chlordiazepoxide (0.05ng/mg) THC (0.05ng/mg) Ketamine (0.1ng/mg) Tramadol (0.2ng/mg) N-desmethyltramadol (0.2ng/mg) Quantitative analysis of the following drugs (range): Benzoylecgonine (0.005-1.0ng/mg) Cocaethylene (0.005-1.0ng/mg) Cocaine (0.05-5.0ng/mg) Methadone (0.025-5.0ng/mg) Methadone (0.025-5.0ng/mg) Methamphetamine (0.025-5.0ng/mg) | Mork Place Drugs Analysis/Medical and Legal Analysis Presumptive screening for the presence of the following drugs (cut-off limit) Benzoylecgonine (0.05ng/mg) Cocaine (0.5ng/mg) Diazepam (0.05ng/mg) Methadone (0.2ng/mg) Morphine (0.2ng/mg) Morphine (0.2ng/mg) Morphine (0.2ng/mg) Morphine (0.2ng/mg) Alprazolam (0.05ng/mg) Norcocaine (0.05ng/mg) Alprazolam (0.05ng/mg) Norcocaine (0.05ng/mg) Norcocaine (0.05ng/mg) Noreazepam (0.05ng/mg) Noreasepam (0.05ng/mg) Noreasepam (0.05ng/mg) Netamine (0.1ng/mg) N-desmethyltramadol (0.2ng/mg) Codaine (0.1ng/mg) Tramadol (0.2ng/mg) N-desmethyltramadol (0.2ng/mg) Cocaine (0.05-1.0ng/mg) Cocaethylene (0.005-1.0ng/mg) Cocaethylene (0.005-1.0ng/mg) Diazepam (0.025-5.0ng/mg) Methadone (0.025-5.0ng/mg) |

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| BODY FLUIDS/TISSUES (cont'd) | Work Place Drugs Analysis/Medical and Legal Analysis (cont'd) | | |
| Hair | Quantitative analysis of the following drugs (range) (cont'd): | Documented in-house method [SOP ref: PRC 006, PRC014 PRC585 PRC 586 and PRC 588] using methanol extraction and LC-MS/MS | A |
| | MDMA (0.025-5.0ng/mg) 6-Acetylmorphine (0.025- 5.0ng/mg) Codeine (0.025-5.0ng/mg) Dihydrocodeine (0.025- 5.0ng/mg) Norcocaine (0.005-1.0ng/mg) AEME (0.025-5.0ng/mg) Alprazolam (0.025-5ng/mg) Temazepam (0.025-5.0ng/mg) Nitrazepam (0.025-5.0ng/mg) Chlordiazepoxide (0.025- 5.0ng/mg) THC (0.025-5.0ng/mg) Ketamine (0.025-5.0ng/mg) Tramadol (0.085 - 6.0ng/mg) N-desmethyltramadol (0.085 - 6.0ng/mg) | | |
| | Presumptive screening for the presence of Ethyl Glucoronide (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 |
| | | | |

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| BODY FLUIDS/TISSUES (cont'd) | Work Place Drugs Analysis/Medical and Legal Analysis (cont'd) | | |
| Oral Fluids (Quantisal Collection Device) | Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range] | Documented in-house methods [SOP ref: PRC 826] using SLE and LC-MS/MS | A |
| | 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] 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] | | |
| | 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] | | |
| | | | |

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| BODY FLUIDS/TISSUES (cont'd) | Work Place Drugs Analysis/Medical and Legal Analysis (cont'd) | | |
| Oral Fluids (Quantisal Collection Device) | Confirmation and Quantitative analysis of the following drugs (cut-off limit); [Concentration Range] | Documented in-house methods [SOP ref: PRC 826, 827, 828 and 829] using SLE and LC-MS/MS | A |
| | 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-tetrahydrcannabinol (THC) (2ng/ml); [0.7-5.6ng/ml] Cannabdiol (CBD) (2ng/ml); [0.7- 5.6ng/ml] | | |
| | Other drugs: Ketamine (15ng/ml); [5-40ng/ml] Tramadol (5ng/ml); [1.5-12ng/ml] | | |
| END | | | |

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