


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: 041 Issue date: 19 January 2022	
	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.co.uk 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: David Thomas Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: info@alphabiolabs.co.uk	Relationship Analysis 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	SARS-CoV-2 RNA (COVID 19) testing	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/ISSUES 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 (pairs of individuals only) - Y-chromosome Analysis - Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin) 	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) 	A
		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 - Yfiler Plus - SureID® 23 Comp 	A
		Documented in-house methods [SOP ref: PRC540, PRC569, PRC570] using electrophoresis: <ul style="list-style-type: none"> - Applied Biosystems 3500xl Genetic Analyser © 	A
	<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 Genetic Characterisation using Familias software	A



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BODY FLUIDS/TISSUES (cont'd) Plasma from maternal venous blood	<u>Relationship Analysis (cont'd)</u> Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR) for relationship testing for: - Paternity	Documented In-house Methods [SOP ref: PRC 081] for Massive Parallel Sequencing Sample Amplification, Enrichment, Library Preparation, Purification and Normalisation using - ForenSeq™ DNA Signature Prep Kit	A
	<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 method [SOP ref: PRC 047] for quantification using: Quantus Fluorometer	A
		Documented In-house Methods [SOP ref: PRC 092] Massive Parallel Sequencing of pooled libraries using - MiSeq FGx & MiSeq FGx Control Software (MCS)	A
		Documented In-House Methods [SOP ref: PRC 092] Genetic Characterisation - Forenseq™ Universal Analysis Software (Windows)	



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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 the following drugs (cut-off limit) Benzoyllecgonine (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: PRC585] using methanol extraction and LC-MS/MS	A
Hair	Quantitative analysis of the following drugs (range): Benzoyllecgonine (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)	Documented in-house method [SOP ref: PRC585] 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) (cont'd): 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 (0.25-5.0ng/mg)	Documented in-house method [SOP ref: PRC585] 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 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 801,804 and 806] using LC-MS/MS	A
Unpreserved Urine	Adulteration testing: - Creatinine	Documented in-house methods [SOP ref: PRC573] using DRI Immunoassay and CEDIA Sample Check	A
	- Specific Gravity	Documented in-house methods [SOP ref: PRC573] using Indiko Plus Chemistry Analyser	A
Unpreserved Urine	Presumptive screening for the presence of the following drugs (cut-off limit) Ethanol (107mg/dL)	Documented in-house method PRC 132 using DRI Immunoassay and Indiko Plus Chemistry Analyser	A



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BODY FLUIDS/TISSUES (cont'd) Unpreserved Urine	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u> Presumptive screening for the presence of the following drugs (cut-off limit) Opiates: 6-Acetylmorphine (10ng/ml) Morphine-3-glucuronide (300ng/ml) Morphine-6-glucuronide (300ng/ml) Morphine (300ng/ml) Codeine-6-glucuronide (300ng/ml) Codeine-6-glucuronide (300ng/ml) Dihydrocodeine (300ng/ml) Oxycodone (50ng/ml) Methadone (250ng/ml) EDDP (75ng/ml) Benzodiazepines Group: Nordiazepam (100ng/ml) Oxazepam (100ng/ml) Temazepam (100ng/ml) Bromazepam (100ng/ml) Amphetamines Group: Amphetamine (200ng/ml) Methamphetamine (200ng/ml) MDA (200ng/ml) MDMA (200ng/ml) Cathinone Group: Mephdrone (200ng/ml) Cocaine Metabolites: Benzoyllecgonine (100ng/ml) Ecgonine Methyl Ester (100ng/ml) Cocaethylene (100ng/ml)	Documented in-house methods PRC017 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>		
Unpreserved Urine	Presumptive screening for the presence of the following drugs (cut-off limit) Other drugs: Carboxy-THC (15ng/ml) Phencyclidine (25ng/ml) Propoxyphene (300ng/ml) Ketamine (300ng/ml) Norketamine (300ng/ml) Methaqualone (300ng/ml)	Documented in-house methods PRC017 using methanol extraction and LC-MS/MS	A
Unpreserved Urine	Barbiturates Group: Phenobarbital (150ng/ml) Primidone (150ng/ml) Amobarbital (150ng/ml) Secobarbital (150ng/ml) Pentobarbital (150ng/ml)	Documented in-house methods PRC817 using SLE and LC-MS/MS	A
Unpreserved Urine	Quantitative analysis of the following drugs: Amphetamines Group: Amphetamine (37.5 – 2400ng/ml) Methamphetamine (37.5 – 2400ng/ml) MDA (37.5 – 2400ng/ml) MDMA (37.5 – 2400ng/ml) Opiate Group: Morphine (50 - 3200ng/ml) 6-MonoAcetylMorphine (2.0-160ng/ml)	Documented in-house methods PRC017 using methanol extraction and LC-MS/MS	A



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<p>BODY FLUIDS/TISSUES (cont'd)</p> <p>Unpreserved Urine</p>	<p><u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Quantitative analysis of the following drugs:</p> <p>Morphine-3-Glucuronide (50 - 3200ng/ml) Morphine-6-Glucuronide (50 - 3200ng/ml) Methadone (50 - 3200ng/ml) EDDP (25 - 1600ng/ml) Oxycodone (20 - 1600ng/ml) Codeine (50 - 3200ng/ml) Codeine Glucuronide (50 - 3200ng/ml) Dihydrocodeine (50 - 3200ng/ml)</p> <p>Benzodiazepine Group: Nordiazepam (20 - 1600ng/ml) Oxazepam (20 - 1600ng/ml) Temazepam (20 - 1600ng/ml) Bromazepam (20 - 1600ng/ml)</p> <p>Cathinone Group: Mephedrone (37.5 – 2400ng/ml)</p> <p>Cocaine Metabolites: Benzoylecgonine (25 - 1600ng/ml) Cocaethylene (25 - 1600ng/ml) Ecgonine Methyl Ester (25 - 1600ng/ml)</p> <p>Other Drugs: Carboxy-THC (2.5 – 160ng/ml) Phencyclidine (5.0 – 400ng/ml) Propoxyphene (50 - 3200ng/ml) Ketamine (50 - 3200ng/ml) Norketamine (50 - 3200ng/ml) Methaqualone (50 - 3200ng/ml)</p>	<p>Documented in-house methods PRC017 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 (cont'd)</u>		
Unpreserved Urine	Quantitative analysis of the following drugs: Barbiturate Group: Phenobarbital (50 - 3200ng/ml) Primidone (50 - 3200ng/ml) Amobarbital (50 - 3200ng/ml) Secobarbital (50 - 3200ng/ml) Pentobarbital (50 - 3200ng/ml)	Documented in-house methods PRC817 using SLE and LC-MS/MS	A
Unpreserved Urine	Presumptive screening for the presence of the following drugs (cut-off limit) Opiates Group: 6-MonoAcetyl Morphine (10ng/ml) Morphine-3-Glucuronide (300ng/ml) Morphine-6-Glucuronide (300ng/ml) Morphine (300ng/ml) Codeine-6-Glucuronide (300ng/ml) Codeine (300ng/ml) Dihydrocodeine (300ng/ml) Oxycodone (50ng/ml) Methadone (250ng/ml) EDDP (75ng/ml) Benzodiazepines Group: Nordiazepam (100ng/ml) Oxazepam (100ng/ml) Temazepam (100ng/ml) Bromazepam (100ng/ml) Amphetamines Group: Amphetamine (200ng/ml) Methamphetamine (200ng/ml) MDA (200ng/ml) MDMA (200ng/ml)	Documented in-house methods PRC093 using hydrolysis, methanol extraction and LC-MS/MS PRC095	A



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BODY FLUIDS/TISSUES (cont'd)	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>		
Unpreserved Urine	<p>Presumptive screening for the presence of the following drugs (cut-off limit)</p> <p>Cathinone Group: Mephedrone (200ng/ml)</p> <p>Cocaine metabolites: Benzoylecgonine (100ng/ml) Cocaethylene (100ng/ml)</p> <p>Other drugs: Carboxy-THC (15ng/ml) Propoxyphene (300ng/ml) Ketamine (300ng/ml) Norketamine (300ng/ml) Methaqualone (300ng/ml)</p>	Documented in-house methods PRC093 using hydrolysis, methanol extraction and LC-MS/MS PRC095	A
Unpreserved Urine	<p>Quantitative analysis of the following drugs:</p> <p>Amphetamines Group: Amphetamine (37.5 – 2400 ng/ml) Methamphetamine (37.5 – 2400 ng/ml) MDA (37.5 – 2400 ng/ml) MDMA (37.5 – 2400 ng/ml)</p> <p>Opiates Group: Morphine (50 – 3200 ng/ml) Morphine-3-Glucuronide (50 – 3200 ng/ml) Morphine-6-Glucuronide (50 – 3200 ng/ml) Methadone (50 -3200 ng/ml) EDDP (25 – 1600 ng/ml) Oxycodone (50 – 1600 ng/ml) Codeine (50 – 3200 ng/ml) Codeine-6-Glucuronide (50 – 3200 ng/ml) Dihydrocodeine (50 – 3200 ng/ml)</p>	Documented in-house methods PRC093 using hydrolysis, methanol extraction and LC-MS/MS PRC095	A



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BODY FLUIDS/TISSUES (cont'd) Unpreserved Urine	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u> Quantitative analysis of the following drugs: Benzodiazepines Group: Nordiazepam (20 - 1600ng/ml) Oxazepam (20 – 1600 ng/ml) Temazepam (20 – 1600 ng/ml) Bromezepam (20 – 1600 ng/ml) Cathinone Group: Mephedrone (37.5 – 2400 ng/ml) Cocaine metabolites: Benzoylecgonine (25 – 1600 ng/ml) Cocaethylene (25 – 1600 ng/ml) Other drugs: Carboxy-THC (2.5 – 160 ng/ml) Propoxyphene (50 – 3200 ng/ml) Ketamine (50 – 3200 ng/ml) Norketamine (50 – 3200 ng/ml) Methaqualone (50 – 3200 ng/ml)	Documented in-house methods PRC093 using hydrolysis, methanol extraction and LC-MS/MS PRC095	A
Oral Fluids (Quantisal Collection Device)	Presumptive screening for the presence of the following drugs (cut-off limit) Opiates Group: Morphine (15ng/ml) Dihydrocodeine (15ng/ml) Codeine-6-glucuronide (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)	Documented in-house methods PRC826, using SLE 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>		
Oral Fluids (Quantisal Collection Device)	Presumptive screening for the presence of the following drugs (cut-off limit) 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) Cannabinoids Group: d9-tetrahydrocannabinol (THC) (2ng/ml) Cannabinol (CBN) (2ng/ml) Cannabdiol (CBD) (2ng/ml) Other drugs: Ketamine (15ng/ml) Tramadol (5ng/ml)	Documented in-house methods PRC826, 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)	Documented in-house methods PRC826, 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> Quantitative analysis of the following drugs: Cocaine and Metabolites: Benzoyllecgonine (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) 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) Canabinoids Group: d9-tetrahydcannabinol (THC) (0.7 – 5.6ng/ml) Cannabinol (CBN) (0.7 – 5.6ng/ml) Cannabdiol (CBD) (0.7 – 5.6ng/ml) Other drugs: Ketamine (5.0 – 40ng/ml) Tramadol (1.5 – 12ng/ml)	Documented in-house methods PRC826, using SLE and LC-MS/MS	A



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BODY FLUIDS/TISSUES (cont'd)	<u>Virology Testing</u>		
	Molecular examination activities for the purpose of clinical diagnosis	Documented in-house methods including DHSC requirements for private providers of Covid-19 testing to include: <ul style="list-style-type: none"> - General Population Testing, - Test to Release Testing, - Day 2 & 8 International Arrival Testing (detection of SARS-CoV-2 virus RNA) 	B
Nasopharyngeal, throat, nasal and combined nose/throat swabs in Inactivating Transport Media (ITM)	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically ORF1ab, N and S gene	Documented in-house method (PRC 127) for the: <ul style="list-style-type: none"> - Extraction of RNA using MagMAX Viral/Pathogen Kits using KingFisher Flex instruments 	B
	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically N and E gene	Documented in-house method (PRC 128) for the: <ul style="list-style-type: none"> - RT-PCR using the TaqPath COVID-19 Kit using QuantStudio5 instruments 	B
	Detection of SARS-CoV-2 virus RNA (COVID-19) specifically N and E gene	Documented in-house method (PRC 209) for the: <ul style="list-style-type: none"> - RT-PCR using the Nonacus VirPath Kit using QuantStudio5 instruments 	B
Nasopharyngeal, throat, nasal and combined nose/throat swabs in Inactivating Transport Media (ITM)	Genome sequencing of SARS-CoV-2 (COVID 19)	Documented in-house methods (PRC 231-235) for the use of: <ul style="list-style-type: none"> - AmpliSeq panels - IonChef - Ion Torrent Sequencer - Ion GeneStudio S5 Prime 	B
END			