


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>2773</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Alpha BioLaboratories Analytical Ltd</h3> <p>Issue No: 033    Issue date: 06 January 2021</p>	
	<p>14 Webster Court Carina Park Warrington WA5 8WD</p>	<p>Contact: David Thomas Tel: +44 (0) 333 600 1300 +44 (0)1925 255450 E-Mail: info@alphabiolabs.co.uk Website: www.alphabiolabs.co.uk</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>BODY FLUIDS/TISSUES</p> <p>Swabs (Buccal cells) Nail Toothbrushes</p>	<p><u>Relationship Analysis</u></p> <p>Short Tandem Repeat (STR) DNA profiling for relationship testing for:</p> <ul style="list-style-type: none"> <li>- Paternity</li> <li>- Maternity</li> <li>- Sibling (pairs of individuals only)</li> <li>- Y-chromosome Analysis</li> <li>- Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin)</li> </ul>	<p>Documented in-house methods [SOP ref: PRC565, PRC 812] using manual/automated extraction:</p> <ul style="list-style-type: none"> <li>- Promega SwabSolution</li> <li>- Prep-N-Go</li> <li>- QIAmp DNA Investigator (nail only)</li> </ul> <p>Documented in-house methods [SOP ref: PRC521, PRC 545] using manual/automated amplification and the following chemistry:</p> <ul style="list-style-type: none"> <li>- Fusion STR Multiplex</li> <li>- Verifiler Express</li> <li>- HDPLEX</li> <li>- Yfiler Plus</li> <li>- SureID® 23 Comp</li> </ul> <p>Documented in-house methods [SOP ref: PRC540, PRC569, PRC570] using electrophoresis:</p> <ul style="list-style-type: none"> <li>- Applied Biosystems 3500xl Genetic Analyser ©</li> </ul>



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BODY FLUIDS/TISSUES (cont'd)	<p><u>Relationship Analysis (cont'd)</u></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 Genetic Characterisation using</p> <ul style="list-style-type: none"> <li>- Familias software</li> </ul>
Hair	<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>Benzoyllecgonine (0.05ng/mg)</p> <p>Cocaethylene (0.05ng/mg)</p> <p>Cocaine (0.5ng/mg)</p> <p>Diazepam (0.05ng/mg)</p> <p>Methadone (0.2ng/mg)</p> <p>Methamphetamine (0.2ng/mg)</p> <p>Morphine (0.2ng/mg)</p>	<p>Documented in-house method [SOP ref: PRC585] using methanol extraction and LC-MS/MS</p>
Hair	<p>Quantitative analysis of the following drugs:</p> <p>Benzoyllecgonine (0.002-1.0ng/mg)</p> <p>Cocaethylene (0.002-1.0ng/mg)</p> <p>Cocaine (0.02-10.0ng/mg)</p> <p>Diazepam (0.01-5.0ng/mg)</p> <p>Methadone (0.01-5.0ng/mg)</p> <p>Methamphetamine (0.01-5.0ng/mg)</p> <p>Morphine (0.01-5.0ng/mg)</p> <p>Quantitative analysis of ethyl glucuronide</p>	<p>Documented in-house method [SOP ref: PRC585] using methanol extraction and LC-MS/MS</p> <p>Documented in-house method [SOP ref: PRC 801,804 and 806] using LC-MS/MS</p>



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BODY FLUIDS/TISSUES (cont'd)  Unpreserved Urine	<u>Work Place Drugs Analysis/Medical and Legal Analysis (cont'd)</u>  Adulteration testing:  - Creatinine  - Specific Gravity	Documented in-house methods [SOP ref: PRC573] using DRI Immunoassay and CEDIA Sample Check  Documented in-house methods [SOP ref: PRC573] using Indiko Plus Chemistry Analyser
Unpreserved Urine	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)	Documented in-house methods PRC017 using methanol extraction and LC-MS/MS



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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: Mephdrone (200ng/ml)</p> <p>Cocaine Metabolites: Benzoylecgonine (100ng/ml) Ecgonine Methyl Ester (100ng/ml) Cocaethylene (100ng/ml)</p> <p>Other drugs: Carboxy-THC (15ng/ml) Phencyclidine (25ng/ml) Propoxyphene (300ng/ml) Ketamine (300ng/ml) Norketamine (300ng/ml) Methaqualone (300ng/ml)</p> <p>Barbiturates Group: Phenobarbital (150ng/ml) Primidone (150ng/ml) Amobarbital (150ng/ml) Secobarbital (150ng/ml) Pentobarbital (150ng/ml)</p>	<p>Documented in-house methods PRC017 using methanol extraction and LC-MS/MS</p> <p>Documented in-house methods PRC819 using methanol extraction and LC-MS/MS</p>
Unpreserved Urine	<p>Quantitative analysis of the following drugs:</p> <p>Amphetamines Group: Amphetamine (37.5 – 2400ng/ml) Methamphetamine (37.5 – 2400ng/ml) MDA (37.5 – 2400ng/ml) MDMA (37.5 – 2400ng/ml)</p> <p>Opiate Group: Morphine (50 - 3200ng/ml) 6-MonoAcetylMorphine (2.0-160ng/ml)</p>	<p>Documented in-house methods PRC017 using methanol extraction and LC-MS/MS</p>



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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)</p> <p>Morphine-6-Glucuronide (50 - 3200ng/ml)</p> <p>Methadone (50 - 3200ng/ml)</p> <p>EDDP (25 - 1600ng/ml)</p> <p>Oxycodone (20 - 1600ng/ml)</p> <p>Codeine (50 - 3200ng/ml)</p> <p>Codeine Glucuronide (50 - 3200ng/ml)</p> <p>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>



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BODY FLUIDS/ISSUES (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 PRC819 using methanol extraction and LC-MS/MS
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



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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
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



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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) Bromazepam (20 – 1600 ng/ml)  Cathinone Group: Mephedrone (37.5 – 2400 ng/ml)  Cocaine metabolites: Benzoyllecgonine (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
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: Benzoyllecgonine (8ng/ml) Cocaine (8ng/ml) Cocaethylene (8ng/ml) Norcocaine (8ng/ml)	Documented in-house methods PRC826, using SLE and LC-MS/MS





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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)	<p>Presumptive screening for the presence of the following drugs (cut-off limit)</p> <p>Amphetamines Group: Amphetamine (15ng/ml) Methamphetamine (15ng/ml) MDA (15ng/ml) MDMA (15ng/ml)</p> <p>Benzodiazepines Group: Diazepam (3ng/ml) Nordazepam (3ng/ml) Temazepam (3ng/ml) Oxazepam (3ng/ml) Alprazolam (3ng/ml) Nitrazepam (3ng/ml)</p> <p>Canabinoids Group: d9-tetrahydcannabinol (THC) (2ng/ml) Cannabinol (CBN) (2ng/ml) Cannabdiol (CBD) (2ng/ml)</p> <p>Other drugs: Ketamine (15ng/ml) Tramadol (5ng/ml)</p>	Documented in-house methods PRC826, using SLE and LC-MS/MS
Oral Fluids (Quantisal Collection Device)	<p>Quantitative analysis of the following drugs:</p> <p>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)</p>	Documented in-house methods PRC826, using SLE and LC-MS/MS



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<p>BODY FLUIDS/ISSUES (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>Quantitative analysis of the following drugs:</p> <p>Cocaine and Metabolites: Benzoyllecgonine (2.5 – 20ng/ml) Cocaine (2.5 – 20ng/ml) Cocaethylene (2.5 – 20ng/ml) Norcocaine (2.5 – 20ng/ml)</p> <p>Amphetamines Group: Amphetamine (5.0 – 40ng/ml) Methamphetamine (5.0 – 40ng/ml) MDA (5.0 – 40ng/ml) MDMA (5.0 – 40ng/ml)</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-tetrahydcannabinol (THC) (0.7 – 5.6ng/ml) Cannabinol (CBN) (0.7 – 5.6ng/ml) Cannabdiol (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 PRC826, using SLE and LC-MS/MS</p>
END		