Schedule of Accreditation

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Analytical Services International Ltd (ASI)

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS	<u>Forensic Testing</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 in relation to the Forensic Activities listed below. In addition, where compliance has been demonstrated for the related FSA specific requirements this is stated below at the relevant schedule entry.
	<u>Forensic Analysis/Medical and Legal Analysis</u>	
Blood/Urine (Preserved)	Detection and quantification of the following in relation to Section 5 of the Road Traffic Act 1988 (as amended) minimum quantification level 10 mg%, Alcohol Blood 80 mg/100mL, quantification range 10 – 400 mg%; Urine 107mg/100mL, quantification range 10 – 400 mg%	Documented in house method (SOP 238) using GC-FID, *headspace GC-FID*
Blood/Urine (Preserved)	Identification and quantification of alcohol (ethanol) in non-RTA samples (cut-off limit): Alcohol Blood 80 mg/100mL with minimum quantification level 10 mg% and quantification range 10 – 400 mg%; Urine 107mg/100mL with minimum quantification level 10 mg% and quantification range 10 – 400 mg%	Documented in house method (SOP 238) using GC-FID, *headspace GC-FID*

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Whole blood (preserved)	Detection and quantification of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014 (as amended): (Limit) and (Calibration Range): Amphetamine (250 µg/L) (80-2,000 µg/L) Benzoylecgonine (50 µg/L) (20-500 µg/L) Clonazepam (50 µg/L) (20-500 µg/L) Cocaine (10 µg/L) (4-100 µg/L) Diazepam (550 µg/L) (80-2,000 µg/L) Flunitrazepam (300 µg/L) (100-2500 µg/L) Ketamine (20 µg/L) (8-200 µg/L) Lorazepam (100 µg/L) (40-1000 µg/L) Lysergic Acid Diethylamide – LSD (1 µg/L) (0.4-10 µg/L) Methadone (500 µg/L) (80-2000 µg/L) Methylamphetamine (10 µg/L) (4-100 µg/L) Methylenedioxymethamphetamine – MDMA (10 µg/L) (4-100 µg/L) 6-Monoacetylmorphine (5 µg/L) (2-50 µg/L) Morphine (80 µg/L) (32-800 µg/L) Oxazepam (300 µg/L) (100-2500 µg/L) Temazepam (1000 µg/L) (160-4000 µg/L) Delta-9-tetrahydrocannabinol (2 µg/L) (1.0-25 µg/L)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988 Documented in house method (SOP 324) Extraction using protein precipitation and phospholipid removal followed by LC-MS/MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Whole blood (preserved)	Detection and quantification of drugs of abuse (cut-off limit) and (concentration range): **Amphetamines Group:** Amphetamine (60 µg/L) (80-2,000 µg/L) Methylamphetamine (3µg/L) (4-100 µg/L) Methylenedioxymethamphetamine MDMA (4 µg/L) (4-100 µg/L) **Benzodiazepines Group:** Clonazepam (20 µg/L) (20-500 µg/L) Diazepam (75 µg/L) (80-2,000 µg/L) Flunitrazepam (100 µg/L) (100-2500 µg/L) Lorazepam (40 µg/L) (40-1000 µg/L) Oxazepam (100 µg/L) (100-2500 µg/L) Temazepam (100 µg/L) (160-4000 µg/L) **Cocaine Group:** Benzoylecgonine (15 µg/L) (20-500 µg/L) Cocaine (3 µg/L) (4-100 µg/L) **Opioids Group:** Methadone (80 µg/L) (80-2000 µg/L) 6-Monoacetylmorphine (2 µg/L) (2-50 µg/L) Morphine (20 µg/L) (32-800 µg/L) Ketamine (7 µg/L) (8-200 µg/L) Lysergic Acid Diethylamide LSD (0.4µg/L) (0.4-10 µg/L) **Cannabinoids Group:** Delta-9-tetrahydrocannabinol (1 µg/L) (1.0-25 µg/L) 11-nor-9-carboxy-tetrahydrocannabinol (THC-COOH) (1 µg/L) [1-25 µg/L] 11-Hydroxy-Tetrahydrocannabinol (THC-OH) (1 µg/L) [1-25 µg/L]	Documented in house method (SOP 324) Extraction using protein precipitation and phospholipid removal followed by LC-MS/MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Whole blood (preserved)	**Amphetamines Group:** Methylenedioxyamphetamine (MDA) (8 µg/L) (8-200 µg/L) **Benzodiazepines Group:** Alprazolam (20 µg/L) (20-500 µg/L) Phenazepam (20 µg/L) (20-500 µg/L) Nordiazepam (40 µg/L) (40-1000 µg/L) **Opioids Group:** Buprenorphine (0.8 µg/L) (0.8-20 µg/L) Codeine (32 µg/L) (32-800 µg/L) Dihydrocodeine (32 µg/L) (32-800 µg/L) **Cathinones Group:** Methylone (20 µg/L) (20-500 µg/L) Butylone (20 µg/L) (20-500 µg/L) Mephedrone (20 µg/L) (20-500 µg/L) 4-MEC (4-methylethcathinone) (20 µg/L) (20-500 µg/L) MDPV (3,4-methylenedioxypyrovalerone) (20 µg/L) (20-500 µg/L) **Piperazines Group:** BZP (1-benzoypiperazine) (20 µg/L) (20-500 µg/L) m-CPP (meta-chlorophenylpiperazine) (20 µg/L) (20-500 µg/L) TFMPP (1-[3-Trifluoromethyl)phenyl]piperazine) (20 µg/L) (20-500 µg/L)	Documented in house method (SOP 334) Extraction using protein precipitation and phospholipid removal followed by LC-MS/MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Urine (preserved)	Confirmation (above specified cut off limit) of the following drugs (cut off limit): **Amphetamines Group:** Methylenedioxyamphetamine (MDA) (8 µg/L) **Benzodiazepines Group:** Alprazolam (20 µg/L) Phenazepam (20 µg/L) Nordiazepam (40 µg/L) **Opioids Group:** Buprenorphine (0.8 µg/L) Codeine (32 µg/L) Dihydrocodeine (32 µg/L) **Cathinones Group:** Methylone (20 µg/L) Butylone (20 µg/L) Mephedrone (20 µg/L) 4-MEC (4-methylethcathinone) (20 µg/L) MDPV (3,4-methylenedioxypyrovalerone) (20 µg/L) **Piperazines Group:** BZP (1-benzoypiperazine) (20 µg/L) m-CPP (meta-chlorophenylpiperazine) (20 µg/L) TFMPP (1-[3-Trifluoromethyl)phenyl]piperazine) (20 µg/L)	Documented in house method (SOP 334) Extraction using protein precipitation and phospholipid removal followed by LC-MS/MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Urine (preserved)	Confirmation (above specified cut off limit) of the following drugs (cut off limit): **Amphetamines Group:** Amphetamine (250 µg/L) Methylamphetamine (10 µg/L) 6-Monoacetylmorphine (5 µg/L) Methylenedioxymethamphetamine (MDMA) (10 µg/L) **Benzodiazepines Group:** Clonazepam (50 µg/L) Diazepam (183 µg/L) Flunitrazepam (300 µg/L) Lorazepam (100 µg/L) Oxazepam (300 µg/L) Temazepam (333 µg/L) **Cocaine Group:** Benzoylecgonine (50 µg/L) Cocaine (10 µg/L) **Opioids Group:** Methadone (167 µg/L) Morphine (80 µg/L) Ketamine (20 µg/L) Lysergic Acid Diethylamide LSD (1.0 µg/L) **Cannabinoids Group:** Delta-9-tetrahydrocannabinol (THC) (1 µg/L) 11-nor-9-carboxy-tetrahydrocannabinol (THC-COOH) (1µg/L) 11-Hydroxy-Tetrahydrocannabinol (THC-OH) (1 µg/L)	Documented in house method (SOP 336) Extraction using protein precipitation and phospholipid removal followed by LC-MS/MS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
BODY FLUIDS (cont'd)	Forensic Analysis/Medical and Legal Analysis (cont'd)	
Human plasma (from unpreserved blood)	Quantitative analysis of the following drugs (concentration range): Anti-psychotic group: Clozapine (0.01-3.00 mg/L) Norclozapine (0.01-3.00 mg/L)	Documented in house method (SOP 290), extraction using protein precipitation and phospholipid removal followed by instrumental analysis using LC-MS/MS
Human plasma (from unpreserved blood)	Quantitative analysis of the following drugs (concentration range): Anti-psychotic group: Clozapine (0.01-3.00 mg/L) Norclozapine (0.01-3.00 mg/L)	Documented in house method (SOP 290), extraction using protein precipitation and phospholipid removal followed by instrumental analysis using LC-TOF-MS
	Related Opinions and Interpretations	
Alcohol Technical Defence (in relation to RTA and sexual offences) for sample matrix including blood/urine/breath	Estimation of alcohol consumption and elimination with respect to validity of drinking patterns: 1) Effect of alleged post-accident alcohol consumption on measured breath/body fluids alcohol levels 2) Effect of alleged spiked drink 3) Back calculations of breath/blood/urine alcohol levels to the time of accident or other incident from 8.7µg% / 20mg% / 27mg% and above	Documented in house (SOP 273) using mathematical calculations
END		