

Schedule of Accreditation



Organisation Name	Forensic Science Ireland
Trading As	
INAB Reg No	137T
Contact Name	Fiona Thornton
Address	Backweston Laboratory Campus, Stacumny Lane, Celbridge, Kildare, W23FT2X
Contact Phone No	01 666 2906
Email	fthornton@fsi.gov.ie
Website	
Accreditation Standard	EN ISO/IEC 17025 T
Standard Version	2017
Date of award of accreditation	07/04/2003
Scope Classification	Forensic Testing
Services available to the public ¹	

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Forensic Science Ireland (BLC)	Backweston Laboratory Campus, Stacumny Lane, Celbridge, Kildare, Ireland

Scope of Accreditation

Forensic Science Ireland (BLC)

Forensic Testing

Category: A

Forensic field - Tests	Parameter	Matrix	Equipment/technique	Range of measurement	Std Ref/SOP
1201 Controlled substances - .02 Chemical qualitative	Detection of non-Cannabis controlled drugs.	LSD	Thin Layer Chromatography, Gas Chromatography with Mass Spectrometry	Product limit of identification: LSD 16µg	FSIDTP607 FSIDTP406 FSIDTP401 FSIDTP403
		Narcotic Analgesics and Stimulants. Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations	Thin Layer Chromatography	Product limit of identification: Narcotic Analgesics Diamorphine = 1% Dihydrocodeine = 1% Methadone = 2% Morphine = 1% Oxycodone = 1% Stimulants Amphetamines = 1% Methylamphetamine = 1%	FSIDTP406
	Detection of non-Cannabis controlled drugs.	Ecstasy type compounds, Benzodiazepines and miscellaneous	Gas Chromatography with Mass Spectrometry	Product limit of identification: Ecstasy type compounds MDMA = 1%	FSIDTP401 FSIDTP403

		compounds . Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations		MDEA = 1% Benzodiazepines: Alprazolam = 3% Diazepam = 1% Flunitrazepam = 1% Flurazepam = 2% Nitrazepam = 2% Temazepam = 1% Miscellaneous Cocaine = 0.5% Ketamine = 1%	
		Narcotic Analgesics and Stimulants. Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations	Gas Chromatography with Mass Spectrometry	Product limit of identification: Narcotic Analgesics Diamorphine = 1% Dihydrocodeine = 1% Methadone = 2% Morphine = 1% Oxycodone = 1% Stimulants Amphetamines = 1% Methylamphetamine = 1%	FSIDTP401 FSIDTP403
	Detection of non-Cannabis controlled drugs. **1234	Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations and edibles	Gas Chromatography with Mass Spectrometry	Product limit of identification: Phenazepam = 1% Pyrrolidinovaler - ophenane (PVP) =1% Trifluoromethylphenylpiperazine (TFMPP) = 1% 4-methylmethcathinone (4-Mephedrone) =3% Zopiclone = 4% Δ9-Tetrahydrocannabinol = 0.1%	FSIDTP301 FSIDTP302 FSIAP054 FSIDTP404 FSIDTP601 FSIDTS501
1201 Controlled substances - .04 Botanical comparison	Qualitative analysis of Cannabis and Cannabis products	Bulk Cannabis Resin Herbal Material Cannabis Plants	Microscopy	N/A	FSIDTP002

			Thin Layer Chromatography	N/A	FSIDTP001 FSIDTP406
1201 Controlled substances - .05 Identification of controlled substances	Detection of non-Cannabis controlled drugs.	Narcotic Analgesics and Stimulants. Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations	Visual Inspection	N/A	FSIDTP601
1202 Toxicology - .01 Alcohol quantification	Alcohol quantification	Alcohol (Ethanol) quantitation in beverage samples	GC-FID (Gas Chromatography with flame ionization detector)	1-100%	FSIDTP201 FSIDTP202 FSIDTP205 FSIDTP207 FSIDTP208 FSIDTP211 FSIDTP212
		Blood Alcohol	GC-FID (Gas Chromatography with flame ionization detector)	5 to 400mg%	FSIDTP201 FSIDTP202 FSIDTP205 FSIDTP207 FSIDTP208 FSIDTP211 FSIDTP212
	Alcohol Technical Defence	Reporting Ethanol results from biological samples	UKIAFT guidelines v 2.1 Excel Spreadsheets: "Alcohol Back-Calculator" & "ATD Calculator"	As recommended by UKIAFT. See validation report attached	FSIDTP205
1202 Toxicology - .02 Alcohol detection	Alcohol identification	Alcohol (Ethanol) identification in beverage samples	GC-FID (Gas Chromatography with flame ionization detector)	N/A	FSIDTP215
		Blood alcohol	GC-FID (Gas Chromatography with flame ionization detector)	N/A	FSIDTP215

1202 Toxicology - .03 Drug identification	Screen and confirmation of Drugs of Abuse in Urine	Urine	LCMSMS	N/A	FSIDTP254 FSIDTP255 FSIDTP256 FSIDTP257 SIDTS253
1203 Chemistry - .01 Comparison examinations (identification, qualitative, quantative)	Infra red identification/comparison of fibres	Polymers (including textile fibres). Fibre identification and comparison	Fourier Transform Infra Red (FT-IR) Analysis	N/A	FSICTP155
	Microscopic comparison of fibres	Polymers (eg textile fibres). Fibre identification and comparison	Microscopic examination	N/A	FSICTP153
	Micro-spectrophotometry of fibre samples	Polymers (including textile fibres). Fibre identification and comparison	Micro-spectrophotometry	N/A	FSICTP154
	Opinions and Interpretation (inclusive of Evaluative Reporting) for Chemistry Cases *	Glass, fibre, footwear, paint and Firearm residue (FAR) cases	Pre Case Assessment, Examination strategy, Assignment of transfer/persistence/recovery probabilities, Likelihood ratio	n/a	FSIAP109 FSICTP002 FSICTP013 FSICTS151 FSICTP162 FSICTP051 FSICTP052 FSICTP250 FSICTP255 FSICTP206 FSICTP207 FSICTS209
		Paint cases	Pre Case Assessment, Examination strategy, Assignment of transfer/persistence/recovery	n/a	FSIAP109 FSICTP206 FSICTP207 FSICTS209

		probabilities, Likelihood ratio		
Paint comparison	Paint	Fourier Transform Infra Red (FT-IR) Analysis	N/A	FSICTP205
		Microscopic comparison of paints	N/A	FSICTP204
		Paint recovery and preparation	N/A	FSICTP201- FSICTP203 FSICTP163
Polarising microscopy of fibres	Polymers (including textile fibres). Fibre identification and comparison	Polarised Light Microscopy (PLM)	N/A	FSICTP156
Recovery and preparation of fibres for microscopic examination	Polymers (eg textile fibres). Fibre identification and comparison	Fibre recovery and preparation	N/A	FSICTP150 FSICTP151 FSICTP152
Recovery of glass fragments	Glass fragments recovered from items compared with control/reference glass samples	Visual	N/A	FSICTP004
Refractive Index Measurements		Refractive Index Measurements	N/A	FSICTP006 FSICTP005 FSICTP008
Surface characteristics using interference microscopy		Microscopy	N/A	FSICTP009
Thermal history by annealing and re-measuring refractive index		Microscopy	N/A	FSICTP006 FSICTP007
UV-Visible Micro-spectrophotometry	Polymers (including textile fibres). Fibre identification and comparison	UV-Visible Micro-spectrophotometry	N/A	FSICTP160 FSICTP161

1203 Chemistry - .02 Detection of fire accelerants and explosives	Hydrocarbon fire accelerants analysis	Fire debris from crime scenes	ATD GC-MS SPME	ATD GC-MS LOD: Neat petrol 0.5 µl Neat diesel 0.5µl SPME LOD: Neat petrol 0.05 µl Neat diesel 0.02µl	FSICTP104 FSICTP115
		Liquids from crime scenes	GC-MS	Typical analysis is of neat liquids	FSICTP104 FSICTP116
1203 Chemistry - .04 Offensive chemicals	Identification of Chlorobenzylidenemalononitrile (CS), Capsaicin and Dihydrocapsaicin in offensive sprays	Offensive spray products (eg canisters)	Gas Chromatography with Mass Spectrometry - GC MS	LOD: CS = 5ppm Capsaicin = 5.5ppm Dihydrocapsaicin = 4.5ppm	FSICTP350 FSICTP352
1204 Biology - .01 DNA analysis	Analysis of NGM Select profiles using Genemapper ID X software Related Opinions and Interpretation: Comparison, statistical analysis and interpretation of DNA profiles from crime stains with reference DNA profiles *	DNA profiles	Genemapper ID X software	n/a	FSIBTP048 FSIBTS030 FSIBTS238
	Automated processing of buccal FTA samples with the Hamilton STARlet	Reference FTA samples	Hamilton STARlet liquid handling system	N/A	FSIBTP587 FSIBTP044
	Bone Extraction and Purification of DNA from bones and teeth	Bone and tooth samples	Organic Method, EZ1 instrument	Extract DNA > 0.001ng/ul	FSIBTP057 FSIBTP570 FSIBTP571 FSIBTS238
	DNA Amplification: Use of NGM Select to generate DNA profiles and Related Opinions and Interpretation: Comparison, statistical analysis and interpretation of DNA profiles from crime stains with reference DNA profiles	Crimestain and reference material	NGM Select kit, Thermocycler	N/A	FSIBTP051 FSIBTS238

DNA Amplification: HDplex	Crime stain and reference samples	Investigator HDplex Kit	N/A	FSIBTP580 FSIBTP578 FSIBTS238
DNA Extraction and Purification (manual)	Various human body fluids (blood, semen, saliva), hair, epithelial cells and tissue samples and samples associated with crime scenes	Lysis and automated purification of DNA using the EZ1 Advanced XL and the EZ1 Investigator kit	N/A	FSIBTP057 FSIBTP005 FSIBTS238
DNA quantification	Crimestain and reference material - automated and manual quantification	Promega PowerQuant	N/A	FSIBTP574 FSIBTS238
Generation of Mitochondrial DNA profiles Related Opinions and Interpretation: Interpretation of DNA profiles generated internally from DNA extracts of crime stains (single source), human identification and reference samples. Statistical analysis and comparison of mtDNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories).	DNA extracts	MiSeq FGx System using the ForenSeq mtDNA whole genome kit	N/A	FSIBTP592 FSIBTP593 FSIBTP591
Genetic characterisation of NGMSelect profiles using 3500xl genetic analyser Related Opinions and Interpretation: Comparison, statistical analysis and interpretation of DNA profiles from crime stains with reference DNA profiles *	Crimestain and reference material	3500xl genetic analyser	n/a	FSIBTP052 FSIBTP053 FSIBTS238
Lysis, automated DNA purification, quantification, PCR and sequencing set up using Robotic 96 well automated platform.	Various human body fluid (blood, semen, saliva), hair, epithelial cells and tissue	Robotic liquid handler platform	N/A	FSIBTP057 FSIBTP005 FSIBTP064 FSIBTS238

	samples and samples associated with crime scenes.	DNAIQ extraction chemistry, PowerQuant		
Mixture Interpretation using STRmix probabilistic genotyping software Related Opinions and Interpretation: Interpretation of DNA profiles generated internally from crime stains (single source/major minor mixtures/complex mixtures) and reference samples. Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories). *	Crime stain samples	STRmix	n/a	FSIBTP564, FSIBTP589
Opinions and Interpretation (inclusive of Evaluative Reporting) for Sexual Assault Cases *	Sexual assault cases	Pre Case Assessment (LIMS) Examination strategy Assignment of transfer/persistence/recovery probabilities. Likelihood ratio	n/a	FSIBTP579 FSIBTP575 FSIBTP576 FSIBTP583 FSIAP109
Reference DNA Sample Processing: FTA cards	Reference FTA samples	NGM Select Express Kit, Thermocycler	N/A	FSIBTP044
Robotic 96 well automated platform for the processing of buccal FTA samples		Robotic 96 well automated platform	N/A	FSIBTP044
YSTR Related Opinions and Interpretation: Comparison, statistical analysis and interpretation of Y23 DNA profiles from crime stains with reference DNA profiles*	Crime stain and reference samples	Promega Power Plex Y23 STR Kit, Thermocycler	N/A	FSIBTP080 FSIBTS038 FSIBTS238

1204 Biology - .02 Blood pattern analysis	Identification (searching and stain selection/sampling) of blood and BPA on clothing and other items examined at the laboratory Interpretation - related opinions and interpretation (inclusive of Evaluative Reporting for BPA) *	Items of clothing and items from the scene	Visual Inspection	n/a	FSIBTP154 FSIBTP156 FSIBTP157	
1204 Biology - .04 Body fluid identification	Detection of Acid Phosphatase (AP)	Items of clothing and swabs relating to Sexual Assault cases	Brentamine Test	N/A	FSIBTP100	
	Detection of Blood using KM Solution		Items of clothing and items from the scene	Kastle Meyer Test	N/A	FSIBTP150
	Detection of Human Blood			ABA card Hema trace test	N/A	FSIBTP159
	Extraction and detection of salivary α -amylase using RSID saliva membrane test	Items of clothing and swabs relating to Sexual Assault cases	RSID Saliva Membrane Test	N/A	FSIBTP111	
	Extraction and detection of seminal fluid using RSID semen membrane test		RSID Semen Membrane test	N/A	FSIBTP110	
	Extraction and detection of urine using RSID Urine membrane test		RSID Urine Membrane Test	N/A	FSIBTP114	
	Extraction of spermatazoa using whole swab method		Whole swab extraction	N/A	FSIBTP109	
	Identification of human spermatazoa		Microscopy	N/A	FSIBTP101 FSIBTP102	
	The Phadebas® Forensic Press test for the detection of salivary α – amylase.	Crimestain samples	Phadebas® Forensic Press test paper by Magle	N/A	FSIBTP211 FSIBTP212	
1204 Biology - .05 Damage to clothing	Identification, assessment and interpretation of damage to clothing and fabric *	Items of clothing and fabric	Visual examinations, low power microscopy and dimensional measurement	n/a	FSIBTP200 FSIBTP201	
1205 Firearms, ammunition & explosives - .01 Firearm residue	Analysis of Black Powder	Samples of Black Powder (loose powder, grains, other combinations of Potassium Nitrate	- FTIR, - Ion Chromatography - GCMS, - Microscopy, micro-XRF	LOD as determined by IC: Potassium = 0.1ppm Nitrate = 0.02ppm	FSICTP310 FSICTP311 FSICTP305 FSICTP306	

detection and analysis		and/or Charcoal and/or Sulfur)		GC-MS: Sulfur = 2.5ppm	FSICTP308 FSICTP314
	Detection and identification of Firearm Residue (FAR)	Fire and explosions (including firearm discharge residues	Scanning Electron Microscopy (SEM)	LOD 0.5µm	FSICTP250- FSICTP252 FSICTP255- FSICTP257 FSICTP259
	Explosives - Identification of bulk material for the following compounds: Nitrocellulose, PETN, RDX and Nitroxoglycerine in suspect materials	Suspect devices from crime scenes	FTIR and GCMS,	Ranges: LOD Nitroglycerine - 2.5ppm, Nitrocellulose - PETN - 5ppm 5ppm Sulfur 2.5ppm	FSICTP300 - FSICTP302 FSICTP305 - FSICTP308
	Identification of inorganic oxidisers - Potassium perchlorate, Potassium chlorate, Barium Nitrate, Barium Chlorate, Barium Perchlorate, Sodium Nitrate, Sodium Chlorate, Sodium Perchlorate, Strontium Nitrate, Ammonium Nitrate, Sodium Nitrite, **	Components of pyrotechnic mixtures e.g. fireworks, bangers, sparklers etc	- FTIR, GCMS - Ion Chromatography (IC), micro-XRF	LOD as determined by IC: Potassium - 0.1ppm Perchlorate - 0.05ppm Chlorate - 0.04ppm Barium - 1ppm Nitrate - 0.02ppm Sodium - 0.04ppm Strontium - 2ppm Ammonium - 0.075ppm Nitrite - 0.02ppm	FSIAP054 FSICTP400 FSICTP401 FSICTP402 FSICTS400 FSICTS401 FSICTP313 FSICTP314
1206 Questioned documents - .01 Handwriting examination and comparison	Handwriting	Documents	Spectral comparison in the visual and extravisual range (VSC), Stereo Microscopes, Digital Camera*	N/A	FSICTP554
1206 Questioned documents - .02 Signature examination and comparison	Signatures		Spectral comparison in the visual and extravisual range (VSC), Stereo Microscopes, Digital Camera*	N/A	FSICTP555

1206 Questioned documents - .03 Detection and enhancement of Indented Impressions	Indented Impressions *		Spectral comparison in the visual and extravisual range (VSC), Stereo Microscopes, Digital Camera, Electrostatic detection of Indented writings (ESDA)	N/A	FSICTP552 FSICTP551
1206 Questioned documents - .04 Examination of documents for evidence of alteration	Alteration *	Cards, postcards, documents	Spectral comparison in the visual and extravisual range (VSC), Stereo Microscopes, Digital Camera, Electrostatic detection of Indented writings (ESDA)	N/A	FSICTP551 FSICTP552
1206 Questioned documents - .05 Examination of security documents for authenticity	Authenticity *		Spectral comparison in the visual and extravisual range (VSC), Stereo Microscopes, Digital Camera	N/A	FSICTP553
1207 Fingerprinting - .01 Ten print procedure	Processing of Tenprints		Tenprint sets	MBIS, Digital Camera, flatbed scanner, handheld scanner Magnifier	N/A
1207 Fingerprinting - .02 Latent print identification	Fingerprints	Surfaces suitable for retaining friction ridge detail	Vacuum metal deposition procedure	N/A	FSICTP543
	Processing of latent prints	Tenprint sets	MBIS, Digital Camera, flatbed scanner, handheld scanner Magnifier	N/A	FSICTP541 FSICTP536
1207 Fingerprinting -	Fingerprints	Surfaces suitable for retaining friction ridge detail	Indanedione procedure	N/A	FSICTP545

.03 Ninhydrin procedure					
			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	N/A	FSICTP503
1207 Fingerprinting - .04 Superglue procedure			Lumicyano procedure	N/A	FSICTP546
			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	N/A	FSICTP504
1207 Fingerprinting - .05 Dye procedure			Acid Dye Procedure	N/A	FSICTP511
			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	N/A	FSICTP505 FSICTP510
			Solvent Black 3 Procedure	N/A	FSICTP528
1207 Fingerprinting - .06 Fingerprint powder procedure			Fingerprint Fluorescent powders	N/A	FSICTP544
			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	N/A	FSICTP506
			Powder Suspension Procedure	N/A	FSICTP530

1207 Fingerprinting - .07 High intensity light procedure			High Intensity Lights	N/A	FSICTP507
1207 Fingerprinting - .08 Image capture procedure		Fingerprint donors	Reflected UV Imaging of Superglue Fumed Evidence	n/a	FSICTP518* FSICTP519*
		Surfaces suitable for retaining friction ridge detail	High Intensity Lights, Digital Camera and scanner	N/A	FSICTP508
			Acetone Thermal Coating Removal	N/A	FSICTP509
1207 Fingerprinting - .09 Thermal coating removal					
1210 Marks & impressions - .01 Footwear	Enhancement of footwear marks using physical and chemical means	Footwear and footwear impressions from suspected crime scenes	Visual comparison	N/A	FSICTP051 - FSICTP061 (incl)
	Identification and comparison of footwear and footwear marks		Visual comparison	N/A	FSICTP051 - FSICTP061 (incl)
	Use of Trasoscan Lucia Forensic for scanning gel lifts and other items in footwear cases	Impressions on flat surfaces, such as gel lifts, papers etc, and also for images submitted on discs (which will/may be limited by the quality of the original photograph)	Visual comparison	N/A	FSICTP066

** The laboratory is accredited to provide opinions and interpretations for the tests identified*

***The laboratory is accredited for a flexible scope of testing in the following categories*

Note 1 Range of measurement may be extended

Note 2 Parameters may be added

Note 3 Test matrices may be added

Note 4 Equipment/kit

For further details please refer to the laboratories 'Master list of Flexible scope changes', available directly from the laboratory.