

Schedule of Accreditation



Organisation Name	Forensic Science Ireland
Trading As	
INAB Reg No	137T
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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 compounds .	Gas Chromatography with Mass Spectrometry	Product limit of identification: Ecstasy type compounds MDMA = 1% MDEA = 1%	FSIDTP401 FSIDTP403	

		Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations		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	
		Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations and edibles **1234	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	Detection of non-Cannabis controlled drugs.	Narcotic Analgesics and	Visual Inspection	n/a	FSIDTP601	

Identification of controlled substances		Stimulants. Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations				
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, FSIDTS253	
1203 Chemistry - .01 Comparison examinations (identification, qualitative, quantitative)	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 probabilities, Likelihood ratio	n/a *	FSIAP109* FSICTP206* FSICTP207* FSICTS209*	
	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 and FSICTP008	
	Surface characteristics using interference microscopy		Microscopy	n/a	FSICTP009	
	Thermal history by annealing and re-measuring refractive index		Microscopy	n/a	FSICTP006 and 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 and FSICTP352	
1204 Biology - .01 DNA analysis	*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*	
	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*	
	Automated processing of buccal FTA samples with the Hamilton STARlet	Reference FTA samples	Hamilton STARlet liquid handling system	n/a	FSIBTP587 and 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	
	DNA Amplification: Use of NGM Select to generate DNA profiles and Related	Crimestain and reference material	NGM Select kit, Thermocycler	n/a	FSIBTP051	

Opinions and Interpretation: Comparison, statistical analysis and interpretation of DNA profiles from crime stains with reference DNA profiles					
DNA Amplification: HDplex	Crime stain and reference samples	Investigator HDplex Kit	n/a	FSIBTP580 FSIBTP578	
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	
DNA quantification	Crimestain and reference material - automated and manual quantification	Promega PowerQuant	n/a	FSIBTP574	
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 and FSIBTP591	
Genetic characterisation of NGMSelect profiles using 3500xl genetic analyser Related Opinions and Interpretation: Comparison, statistical analysis and interpretation of DNA	Crimestain and reference material	3500xl genetic analyser	n/a	FSIBTP052* and FSIBTP053*	

	profiles from crime stains with reference DNA profiles *					
	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 samples and samples associated with crime scenes	Robotic liquid handler platform DNAIQ extraction chemistry, PowerQuant	n/a	FSIBTP057, FSIBTP005, FSIBTP064	
	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*	
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* and FSIBTP157*	
1204 Biology - .04 Body fluid identification	Detection of Acid Phosphatase (AP)	Items of clothing and swabs relating	Brentamine Test	n/a	FSIBTP100	

		to Sexual Assault cases				
	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 detection and analysis	Analysis of Black Powder	Samples of Black Powder (loose powder, grains, other combinations of Potassium Nitrate and/or Charcoal and/or Sulfur)	- FTIR, - Ion Chromatography, - GCMS, - Microscopy, - SEM-EDX, - micro-XRF	LOD as determined by IC: Potassium = 0.1ppm Nitrate = 0.02ppm GC-MS: Sulfur = 2.5ppm	FSICTP310 FSICTP311 FSICTP305 FSICTP306 FSICTP308 FSICTP314 FSICTP315	
	Detection and identification of Firearm Residue (FAR)	Fire and explosions (including firearm discharge residues)	Scanning Electron Microscopy (SEM)	LOD 0.5 μ m	FSICTP250- FSICTP252, FSICTP255-	

					FSICTP257 FSICTP259	
	Explosives - Identification of bulk material for the following compounds: Nitrocellulose, PETN, RDX and Nitroglycerine in suspect materials	Suspect devices from crime scenes	FTIR and GCMS,	Ranges: LOD Nitroglycerine - 2.5ppm, Nitrocellulose - PETN - 5ppm RDX - 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 SEM-EDX, -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, FSICTP315	
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	FSICTP541, FSICTP536	
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 - .03 Ninhydrin procedure	Fingerprints	Surfaces suitable for retaining friction ridge detail	Indanedione procedure	n/a	FSICTP545	
			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,			n/a	FSICTP504		

			Glue Cabinet, By40 dye, Fingerprint powders			
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 Fingermark Visualisation and Imaging with IR Fluorescent Powders and IR Light Sources	n/a	FSICTP518* FSICTP519*	
		Surfaces suitable for retaining friction ridge detail	High Intensity Lights, Digital Camera and scanner	n/a	FSICTP508	
1207 Fingerprinting - .09 Thermal coating removal			Acetone Thermal Coating Removal	n/a	FSICTP509	

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.