

Schedule of Accreditation



Organisation Name	Forensic Science Ireland
Trading As	
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	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	Ratra House	Ratra House, Phoenix Park, Dublin 8, Dublin
2	Forensic Science Ireland	Garda Headquarters, Phoenix Park, Dublin 8, Dublin

Scope of Accreditation

Forensic Science Ireland

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.	Ecstasy type compounds, Benzodiazepines and miscellaneous compounds . Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations	Gas Chromatography with Mass Spectrometry	Product limit of identification: Ecstasy type compounds MDMA 1% MDEA 1% MDA 1% DOB 2% Benzodiazepines Alprazolam 3% Diazepam 1% Flunitrazepam 1% Flurazepam 2% Nitrazepam 2% Temazepam 1% Miscellaneous Cocaine 0.5% Ketamine 1%	FSIDTP401 and FSIDTP403
		LSD	Thin Layer Chromatography, Gas Chromatography	Product limit of identification: LSD 16µg	FSIDTP607, FSIDTP406, FSIDTP401, FSIDTP403

			with Mass Spectrometry		
		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% Hydrocodone 1% Methadone 2% Morphine 1% Oxycodone 1% Stimulants Amphetamines 1% Methylamphetamine 1%	FSIDTP406
		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% Hydrocodone 1% Methadone 2% Morphine 1% Oxycodone 1% Stimulants Amphetamines 1% Methylamphetamine 1%	FSIDTP401 and FSIDTP403
Flexible scope**		Qualitative identification of 1-methyl-4-(phenylmethyl)piperazine (MBZP)	Gas Chromatography with Mass Spectrometry	LOD (Product) = 0.75% w:w drug:matrix	FSIDTP301 and FSIDTP302, FSIAP054
		Qualitative identification of 4-methylmethcathinone (4-Mephedrone)	Gas Chromatography with Mass Spectrometry	LOD (Product) = 3.0% w:w drug:matrix	FSIDTP301 and FSIDTP302, FSIAP054
		Qualitative identification of Methylethcathinone (MEC)	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 1%	FSIDTP301 and FSIDTP302, FSIAP054

		Qualitative Identification of Phenazepam	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 2%	FSIDTP301 and FSIDTP302, FSIAP054	
		Qualitative identification of Pyrrolidinovaler - ophenane	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 1%	FSIDTP301 and FSIDTP302, FSIAP054	
		Qualitative identification of Trifluoromethylphenylpiperazine (TFMPP)	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 1%	FSIDTP301 and FSIDTP302, FSIAP054	
		Qualitative identification of Zopiclone	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 4%	FSIDTP301 and FSIDTP302, FSIAP054	
	Qualitative analysis of Cannabis and Cannabis products	Bulk Cannabis Resin Herbal Material Cannabis Plants	Thin Layer Chromatography	n/a	FSIDTP001, FSIDTP406	
1201 Controlled substances - .04 Botanical comparison			Microscopy	n/a	FSIDTP002	
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 identification	Alcohol (Ethanol) identification in beverage samples	GC-FID (Gas Chromatography with flame ionization detector)	n/a	FSIDTP215	
	Alcohol quantification	Alcohol (Ethanol) quantification in beverage samples	GC-FID (Gas Chromatography with flame ionization detector)	0-100%	FSIDTP201, 202, 205, 207, 208, 211 and 212	
		Blood Alcohol	GC-FID (Gas Chromatography with flame ionization detector)	5 to 400mg%	FSIDTP201, 202, 205, 207, 208, 211 and 212	
	Alcohol Technical Defence	Reporting Ethanol results from biological samples	UKIAFT guidelines v 2.1 Excel Spreadsheets:	As recommended by UKIAFT. See	FSIDTP205	

			"Alcohol Back-Calculator" & "ATD Calculator"	validation report attached		
1202 Toxicology - .02 Alcohol detection	Alcohol identification	Blood Alcohol	GC-FID (Gas Chromatography with flame ionization detector)	n/a	FSIDTP215	
1203 Chemistry - .01 Comparison examinations (identification, qualitative, quantitative)	Infra red identification/comparison of fibres	Polymers (including paint, plastics and textile fibres). Fibre identification and comparison	Fourier Transform Infra Red (FT-IR) Analysis	n/a	FSICTP155	
	Microscopic comparison of fibres	Polymers (including paint, plastics and textile fibres). Fibre identification and comparison	Microscopic examination	n/a	FSICTP153	
	Micro-spectrophotometry of fibre samples	Polymers (including paint, plastics and textile fibres). Fibre identification and comparison	Micro-spectrophotometry	n/a	FSICTP154	
	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	
	Polarising microscopy of fibres	Polymers (including paint, plastics and textile fibres). Fibre identification and comparison	Polarised Light Microscopy (PLM)	n/a	FSICTP156	
	Recovery and preparation of fibres for microscopic examination	Polymers (including paint, plastics and 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 paint, plastics and 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	Automated Thermal Desorption_Gas Chromatography_Mass Spectrometry (ATD GC-MS)	Limit of detection for both is 0.5ul accelerants	FSICTP102, FSICTP104 and FSICTP105	
		Liquids from crime scenes	Gas chromatography - flame ionization detector - GC FID	Typical analysis is of neat liquids	FSICTP103, FSICTP104 and FSICTP105	
1203 Chemistry - .04 Offensive chemicals	Offensive sprays - Identification of Chlorobenzylidenemalononitrile (CS), Capasaicin and Dihydrocapasaicin in offensive sprays	Offensive sprays	Gas Chromatography with Mass Spectrometry - GC MS	Product limit of detection for CS = 0.4mg (0.0004g) Product limit of detection for Capasaicin and Dihydrocapasaicin = 0.7mg (0.0007g) in each case	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	Crime stain samples	STRmix V2.5.11	n/a	FSIBTP564	

profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories).					
Analysis of NGM Select profiles using Genemapper ID X software	DNA profiles	Genemapper ID X software	n/a	FSIBTP048	
Analysis of Short Tandem Repeat (STR) DNA profiles	Various human body fluid (blood, semen, saliva), hair, epithelial cells and tissue samples and samples associated with crime scenes	Extraction with Qia Amp DNA mini kit and the DNA Investigator kit	n/a	FSIBTP005, FSIBTP009	
		Lysis and automated purification of DNA using the EZ1 Advanced XL and the EZ1 Investigator kit	n/a	FSIBTP057	
Automated DNA extraction	Crimestain and reference material	Promega DNA IQ			
Bone extraction	Bone and tooth samples	Promega kit, Organic Method, EZ1 instrument	Extract DNA > 0.001ng/ul	FSIBTP569, FSIBTP570, FSIBTP571	
DNA quantification	Crimestain and reference material - automated and manual quantification	Promega PowerQuant			
Genetic Analyser and Gene Mapper ID X software	DNA profiles	Genetic Analyser and Gene Mapper ID X software	n/a	FSIBTP048 (Computer based)	
Genetic characterisation of NGMSelect profiles using 3500xl genetic analyser	Crimestain and reference material	3500xl genetic analyser	n/a	FSIBTP052 and FSIBTP053	
Lysis automated DNA purification, quantification, PCR and sequencing set up using the Hamiltonstar and Starlet instruments	Various human body fluid (blood, semen, saliva), hair, epithelial cells and tissue samples and samples associated with crime scenes	Hamiltonstar and Starlet instruments	n/a	FSIBTP058 and FSIBTP061	
Quantification	Manual reference and crime samples	Quantifilier Trio DNA Quantification kit,	n/a	FSIBTP550	

			ABI 7500 Real Time PCR System			
	Reference FTA cards	Reference samples	NGM Select Express Kit, ARKTIC Thermocycler	n/a	FSIBTP044	
	Robotic 96 well automated platform for the processing of buccal FTA samples	Reference FTA samples	Robotic 96 well automated platform	n/a	FSIBTP044 and FSIBTP049	
	Use of PCR Chemistry NGM Select to generate DNA profiles	Crimestain and reference material	PCR Chemistry NGM Select	n/a	FSIBTP044 and FSIBTP051	
	YSTR	Crime stain and reference samples	Promega Power Plex Y23 STR Kit, ARKTIC Thermocycler	n/a	FSIBTP080	
1204 Biology - .02 Blood pattern analysis	Blood Pattern Analysis	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 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 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 (ATR and transmission modes), Ion Chromatography, GCMS, Microscopy, SEM/EDX.	N/a	FSICTP310 FSICTP311 FSICTP312 FSICTP305 FSICTP306 FSICTP308	
	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 and FSICTP259	
	Explosives - Identification of bulk material for the following compounds: Nitrocellulose, PETN, RDX and Nitroglycerine in suspect materials	Suspect devices from crime scenes	GC-MS FT-IR GC-ECD	Ranges: LOD Nitroglycerine - 0.08mg (LOD in Propellant Powder) Nitrocellulose - 0.1mg (LOD in Propellant Powder) PETN - 0.1mg (LOD in typical sample of Semetex) RDX - 0.05mg (LOD in typical sample of Semetex)	FSICTP300 - FSICTP308 (incl)	
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	FSICTP555*	
1206 Questioned documents - .02 Signature examination and comparison	Signatures		Spectral comparison in the visual and extravisual range (VSC), Stereo	n/a	FSICTP556*	

			Microscopes, Digital Camera			
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*	
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	FSICTP553*	
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	FSICTP554*	
1207 Fingerprinting - .01 Ten print procedure	Fingerprints	Fingerprint donors	AFIS System, Digital Camera, Magnifier	n/a	FSICTP500*	
1207 Fingerprinting - .02 Latent print identification		Surfaces suitable for retaining friction ridge detail	Digital Camera	n/a	FSICTP501*	
1207 Fingerprinting - .03 Ninhydrin procedure			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	n/a	FSICTP503	
1207 Fingerprinting - .04 Superglue procedure			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	
1207 Fingerprinting - .06 Fingerprint powder procedure			DFO Procedure	n/a	FSICTP510	
			Ninhydrin Humidity Oven, Glue Fuming, Glue Cabinet, By40 dye, Fingerprint powders	n/a	FSICTP506	
1207 Fingerprinting - .07 High intensity light procedure			High Intensity Lights	n/a	FSICTP507	
1207 Fingerprinting - .08 Image capture procedure			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 v7.4 for scanning gel	Impressions on flat surfaces, such as gel lifts, papers etc, and also for images submitted	Visual comparison	n/a	FSICTP066	

	lifts and other items in footwear cases	on discs (which will/may be limited by the quality of the original photograph)				
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** The laboratory is accredited to provide opinions and interpretations for the tests identified*

*** The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratories approved and documented procedures.*

Note 1 - Additional controlled drugs may be added of the active compound.

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

Ratra House

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.	Ecstasy type compounds, Benzodiazepines and miscellaneous compounds . Samples submitted as wraps or packages containing: powders, illicit tablets, samples of liquid, pharmaceutical preparations	Gas Chromatography with Mass Spectrometry	Product limit of identification: Ecstasy type compounds MDMA 1% MDEA 1% MDA 1% DOB 2% Benzodiazepines Alprazolam 3% Diazepam 1% Flunitrazepam 1% Flurazepam 2% Nitrazepam 2% Temazepam 1% Miscellaneous Cocaine 0.5% Ketamine 1%	FSIDTP401 and FSIDTP403	
		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,	Gas Chromatography with Mass Spectrometry	Product limit of identification: Narcotic Analgesics Diamorphine 1% Dihydrocodeine 1% Hydrocodone 1% Methadone 2% Morphine	FSIDTP401 and FSIDTP403	

		pharmaceutical preparations		1% Oxycodone 1% Stimulants Amphetamines 1% Methylamphetamine 1%		
		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% Hydrocodone 1% Methadone 2% Morphine 1% Oxycodone 1% Stimulants Amphetamines 1% Methylamphetamine 1%	FSIDTP406	
	Flexible scope**	Qualitative Identification of Phenazepam	Gas Chromatography with Mass Spectrometry	Limit of identification in matrix (LOI) = 2%	FSIDTP301 and FSIDTP302, FSIAP054	
	Qualitative analysis of Cannabis and Cannabis products	Bulk Cannabis Resin Herbal Material Cannabis Plants	Thin Layer Chromatography	n/a	FSIDTP001, FSIDTP406	
1201 Controlled substances - .04 Botanical comparison			Microscopy	n/a	FSIDTP002	
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	

