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Schedule of Accreditation

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United Kingdom Accreditation Service

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

Forensic Science Northern Ireland

Issue No: 076 Issue date: 20 April 2026

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Blood</p> <ul style="list-style-type: none"> - Whole - Stains <p>Semen</p> <ul style="list-style-type: none"> - Whole - Azoospermic <p>Saliva</p> <ul style="list-style-type: none"> - Whole - Stains <p>Hair</p> <p>Cellular Material</p>	<p><u>Forensic Analysis (cont'd)</u></p> <p><u>Related Opinions and Interpretation</u> Interpretation of DNA profiles generated internally from crime stains (single source/major-minor/complex mixtures) and reference samples</p> <p>Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)</p> <p>DNA profiling: Y Chromosome DNA profiling for forensic analysis of:</p> <ul style="list-style-type: none"> - Crime Scene Samples - Subject Samples (PACE and Volunteer) 	<p>Documented in-house methods (TP4172)</p> <ul style="list-style-type: none"> - Genetic Characterisation - Genemapper IdX - Expert Systems - STRMix (v2.11) <p>Documented In-House Methods (TP4165) using Manual amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> - Y23 <p>Documented In-House Methods (TP4166) using Electrophoresis</p> <ul style="list-style-type: none"> - Applied Biosystems 3500 Genetic Analyser©



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Any Material</p> <p>Blood</p>	<p><u>Forensic Analysis (cont'd)</u></p> <p><u>Related Opinions and Interpretation</u> Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases</p> <p>Searching for:</p> <ul style="list-style-type: none"> - Blood - Semen - Saliva - Hair <p>Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials:</p> <ul style="list-style-type: none"> - Blood - Semen - Saliva - Cellular DNA - Hair <p>Presumptive testing for Blood via detection of:</p> <ul style="list-style-type: none"> - Peroxidase <p><u>Related Opinions and Interpretations</u> Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory</p>	<p>Documented in-house methods (TP4167, TP4168 and TP4067). Genetic Characterisation using</p> <ul style="list-style-type: none"> - GMIDX v1.5 - YHRD <p>Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4063, TP4065 and TP4064) using:</p> <ul style="list-style-type: none"> - visual examination - low power microscopy - high power microscopy - chemical testing (see below) <p>Documented in-house methods (TP4022, TP4023, TP4026, TP4030, TP4063, TP4064, and TP4065) using:</p> <ul style="list-style-type: none"> - cutting - swabs and swabbing - extraction of stained materials - extraction of swabs - taping - mini-taping <p>Documented in-house method (TP4023) using:</p> <ul style="list-style-type: none"> - visual Examination - KM (Kastle Meyer) <p>Documented in-house method (TP-4062) using :</p> <ul style="list-style-type: none"> - visual examination - low power microscopy - dimensional measurement



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis (cont'd)</u>	
Semen	Presumptive testing for seminal fluid, via detection of: <ul style="list-style-type: none"> - Acid Phosphatase - Choline Confirmatory testing for seminal fluid via identification of: Spermatozoa	Documented in-house methods (TP4026, and TP4044) using: <ul style="list-style-type: none"> - visual Examination - acid phosphatase detection (colour reaction) - choline detection by Florence Iodine test Documented in-house methods (TS4035, TP4041 and TP6500) using: <ul style="list-style-type: none"> - high power microscopy - Haematoxylin and Eosin staining - Christmas tree Stains
Saliva	Presumptive testing for saliva via detection of: <ul style="list-style-type: none"> - Amylase 	Documented in-house method (TP4030) using: <ul style="list-style-type: none"> - visual examination - Phadebas paper - Phadebas tube test
BODY FLUIDS	<u>Forensic Analysis/Medical and Legal Analysis</u>	
Blood and Urine	Detection and quantification in relation to Article 13 the Northern Ireland Road Traffic Act 1995 Alcohol (10 - 700 mg%): Blood 80mg/100ml Urine 107mg/100ml	Documented in-house method (TP1013) using: <ul style="list-style-type: none"> - Headspace GC/FID - Autodilutor/Liquid handler
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) Drug types/groups : <ul style="list-style-type: none"> - Ephedrine / - Pseudoephedrine (10/10ng/ml) 	Documented in-house method (TP1240) using automated SPE: <ul style="list-style-type: none"> - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):</p> <p>Opioids group :</p> <ul style="list-style-type: none"> - Morphine (5/5ng/ml) - Dihydrocodeine (5/5ng/ml) - Codeine (5/5ng/ml) - Oxycodone(5/5ng/ml) - 6 – MAM (blood only) (1ng/ml) - Methadone (5/5ng/ml) - Tramadol (5/5ng/ml) - Buprenorphine (1/1ng/ml) - Fentanyl (1/1ng/ml) <p>Antidepressant group:</p> <ul style="list-style-type: none"> - Trazodone (5/5ng/ml) - Mirtazepine (5/5ng/ml) - Dothiepin (5/5ng/ml) - Imipramine (5/5ng/ml) - Amitriptyline (5/5ng/ml) - Nortriptyline (5/5ng/ml) - Citalopram (5/5ng/ml) - Venlafaxine (5/5ng/ml) - Paroxetine (5/5ng/ml) - Duloxetine (5/5ng/ml) - Fluoxetine (blood only) (5ng/ml) - Sertraline (blood only) (5ng/ml) 	<p>Documented in-house method (TP1240) using automated SPE:</p> <ul style="list-style-type: none"> - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood;Urine (cont'd):</p> <p>Benzodiazepines and “z” groups:</p> <ul style="list-style-type: none"> - 7 –Aminoclonazepam (blood only) (5ng/ml) - 7 –Aminoflunitrazepam (5/5ng/ml) - 7 – Aminonitrazepam (5/5ng/ml) - Flurazepam (5/5ng/ml) - Midazolam (5/5ng/ml) - Clonazepam (5/5ng/ml) - Flunitrazepam (5/5ng/ml) - Alprazolam (5/5ng/ml) - Chlordiazepoxide (5/5ng/ml) - Bromazepam (5/5ng/ml) - Demoxepam (5/5ng/ml) - Nitrazepam (5/5ng/ml) - Oxazepam (5/5ng/ml) - Lorazepam (5/5ng/ml) - Nordiazepam (5/5ng/ml) - Temazepam (5/5ng/ml) - Diazepam (5/5ng/ml) - Phenazepam (5/5ng/ml) - Zopiclone(5/5ng/ml) - Zolpidem (5/5ng/ml) - Zaleplon (5/5ng/ml) <p>Cocaine group:</p> <ul style="list-style-type: none"> - Cocaine (5/5ng/ml) - Benzoyllecgonine (10/10ng/ml) 	<p>Documented in-house method (TP1240) using automated SPE extraction:</p> <ul style="list-style-type: none"> - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS



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<p>BODY FLUIDS (cont'd)</p> <p>Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd))</p>	<p><u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u></p> <p>Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd):</p> <p>Amphetamine group:</p> <ul style="list-style-type: none"> - Amphetamine (10/10ng/ml) - Methamphetamine (10/10ng/ml) - Chloroamphetamine (10/10ng/ml) - MDMA (10/10ng/ml) - MDA (10/10ng/ml) - MDEA (10/10ng/ml) - PMA (10/10ng/ml) - PMMA (10/10ng/ml) - Methylphenidate (10/10ng/ml) - Ethylphenidate (10/10ng/ml) - MBDB (10/10ng/ml) - 2C – B (10/10ng/ml) - 2C – I (10/10ng/ml) - DOB (2,5 - Dimethoxy-4-bromo-amphetamine) (10/10ng/ml) - DOM (10/10ng/ml) <p>Novel Psychoactive Substances:</p> <ul style="list-style-type: none"> - Cathinone (10/10ng/ml) - Ethylone (10/10ng/ml) - Methedrone (10/10ng/ml) - Methylone (10/10ng/ml) - Butylone (10/10ng/ml) - Pentylone (10/10ng/ml) - MDPBP (10/10ng/ml) - BMDP (10/10ng/ml) - Buphedrone (10/10ng/ml) - Mephedrone (4-MMC) (10/10ng/ml) - 4 - Methyl - paramethyl - Aminorex (10/10ng/ml) - BZP (Benzylpiperazine) (10/10ng/ml) - MDPV (Methylenedioxy - pyrovalerone) (10/10ng/ml) - TFMPP (Trifluoromethyl-phenylpiperazine) (10/10ng/ml) - 4 – MEC (10/10ng/ml) - 3 – FMC (urine only) (10ng/ml) - 4 – FMC (10/10ng/ml) 	<p>Documented in-house method (TP1240) using automated SPE:</p> <ul style="list-style-type: none"> - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS



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BODY FLUIDS (cont'd)	<u>Forensic Analysis/Medical and Legal Analysis (cont'd)</u>	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Presumptive screening for the presence of drugs (Cut-off Limit Blood/Urine) (cont'd): Anti-epileptics Group: - Pregabalin (100;1000/100;1000ng/ml) - Lamotrigine (10/10ng/ml) - Carbamazepine (10/10ng/ml) - Phenytoin (5/5ng/ml) Cannabis group: - Delta-9-THC (blood Only) (5ng/ml) - 11-Hydroxy- delta-9-THC (blood only) (5ng/ml) - 11-Carboxy-delta- 9-THC (blood only) (5ng/ml) Miscellaneous: - Risperidone (5/5ng/ml) - Chlorpheniramine (5/5ng/ml) - Propranolol (10/10ng/ml) - Diphenhydramine (5/5ng/ml) - Cyclizine (5/5ng/ml) - Promethazine (5/5ng/ml) - Amiodarone (Blood Only) (10ng/ml) - Paracetamol (100;1000/100;1000ng/ml) - Ketamine (5/5ng/ml)	Documented in-house method (TP1240) using automated SPE: - Extrahera extraction - UPLC-HRMS - Q-Exactive LC-HRMS
Blood (Preserved, Unpreserved)	- 3 FMC /4- FMC(10/5/ng/ml) - Clomipramine (5/5ng/ml)	Q-Exactive LC-HRMS
Urine (Preserved, Unpreserved)	- 3 FMC /4- FMC(10/10/ng/ml) - Clomipramine (5/5ng/ml) - 6 – MAM (10/10ng/ml) - 7-Amino clonazepam (10/10ng/ml) - Fluoxetine (5/5ng/ml) - Sertraline (5/5ng/ml)	Q-Exactive LC-HRMS



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DOCUMENTS (cont'd)	<u>Forensic Analysis</u> (cont'd)	
Paper and other material	Detection and enhancement of indented marks made by handwriting	Documented in-house methods (TP5612 and TS5612) using <ul style="list-style-type: none"> - oblique lighting - low power microscopy - ESDA
Printing Machines and their output including Impact and Non-Impact Printers and Photocopiers	Comparison of office printing equipment and outputs with suspect material	Documented in-house methods (TP5608 and TS5612) using <ul style="list-style-type: none"> - visual examination, - microscopy, - physical fit - visual comparison
Documents	Detection of alterations and decipherment of altered or obliterated entries <ul style="list-style-type: none"> - Ink examination - Paper examinations - Photocopying 	Documented in-house methods (TP5609, TP5610 and TS5612) using <ul style="list-style-type: none"> - lighting techniques, - visual examination - microscopy - VSC
EXPLOSIVES	<u>Forensic Analysis</u>	
Trace Explosives	Recovery of explosives at trace level	Documented in-house methods (TP2003 and TP2005) using swabs
	Identification of explosives at trace level	Documented in-house methods using <ul style="list-style-type: none"> - GC/TEA (TP2002, TP2005, TP 2006, TS2023, TS2024 and TS2025) - UPLC-HRMS (TP2029 and TP2031)
Aqueous solutions extracted from Non-Trace Pyrotechnics and associated materials	Identification and confirmation of inorganic anions and cations and sugars found in explosives (cut off limit 2 mg.l ⁻¹)	Documented In-House Methods (TP2030) using Ion Chromatography
Non-Trace Pyrotechnics and associated materials	Identification and confirmation of sugars found in explosives (cut off limit 2 mg.l ⁻¹)	Documented In-House Methods (TP2030) using <ul style="list-style-type: none"> - Electrochemical detection (Integriion system EXP090)



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EXPLOSIVES (cont'd)	<u>Forensic Analysis</u> (cont'd)	
Non-Trace, Pyrotechnics and Associated Material	Identification of energetic materials	Documented in-house method (TP2035) using - FTIR Spectroscopy
Non-Trace, Pyrotechnics and Associated Material	Identification of bulk explosives	Documented in-house method (TP2023;2034;2017) using GC-FID
FIBRES	<u>Forensic Analysis</u>	
	Search and recovery of fibres from clothing and objects for analysis	Documented in-house method (TP4058) using - visual examination, - low power microscopy and screening, - fibre recovery (taping) mounting
	Identification of fibre type	Documented in-house method (TP4060) using - FTIR
	Comparison of fibres	Documented in-house method (TP4009) using - stereo microscopy - comparison microscopy (TP4010)
	Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres	Documented in-house method (TP4015) using - MSP (visiblelight)
FIREARMS	<u>Forensic Analysis</u>	
Ammunition	Examination of discharged ammunition components to determine the number of guns used.	Documented in-house method (TP3016) using - comparison microscopy
	<u>Opinion and Interpretation</u> The evaluation of features between recovered fired ballistic components	Documented in house methods TP3016 using: - Personal experience - Reference Collections



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FIREARMS (cont'd) Ammunition (cont'd)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Examination of cartridges to determine if ammunition has been loaded into a firearm</p> <p>Comparison of spent ammunition to suspect guns</p> <p><u>Opinion and Interpretation</u> The evaluation of features on recovered fired ballistic components</p> <p>Ammunition and component identification and legal classification</p>	<p>Documented in-house method (TP3016) using :</p> <ul style="list-style-type: none"> - microscopy - comparison microscopy <p>Documented in-house method (TP3016) using</p> <ul style="list-style-type: none"> - comparison microscopy <p>Documented in house methods TP3016 using:</p> <ul style="list-style-type: none"> - Personal experience - Reference Collections <p>Documented in-house method (TP3032) using :</p> <ul style="list-style-type: none"> - weighing - length measurement - use of known samples or standard reference data.
Firearms	<p>Firearm and firearm component part identification and legal classification (Firearms Act 1968 & Firearms Northern Ireland Order 2004)</p> <p>Firearm identification from class marks present on ammunition components</p> <p><u>Opinion and Interpretation</u> The evaluation of features between recovered fired ballistic components</p> <p>Determination of Kinetic Energy of projectiles</p> <p>Test Firing to assess the functionality of weapons and/or ammunition.</p>	<p>Documented in-house method (TP3017 & TP3035) using comparison with known samples, reference standards and publications</p> <p>Documented in-house method (TP3016) using comparison with known samples and use of reference databases.</p> <p>Documented in house methods TP3016 using:</p> <ul style="list-style-type: none"> - Personal experience - Reference Collections <p>Documented in-house method (TP3034) using chronograph and balance</p> <p>Documented in-house method (TP3015) using suspect or reference guns and ammunition</p>



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FIREARMS (cont'd) Firearms (cont'd)	<u>Forensic Analysis</u> (cont'd) Test Firing to generate test samples of ammunition for comparison to exhibits	Documented in-house method (TP3015) using suspect or reference guns and ammunition
FLAMMABLE LIQUIDS (FIRE ACCELERANTS) Material Recovered from and associated with Fire Scenes Common fire accelerant liquids	<u>Forensic Analysis</u> Examination and analysis of the following flammable liquids: - petrol - paraffin - diesel - white spirit	Documented in-house methods (TP2116 and TP2117) using: - GCMS - ATD/GCMS
GUN SHOT RESIDUE (GSR / FDR / CDR) Any Material Including type of matrix Bore Wipes	<u>Forensic Analysis</u> Recovery of in-organic gunshot residues (primer)	Documented in-house methods (TP3003 and TP3004) using - swabbing - vacuuming - carbon coated aluminium stubs
	Recovery of organic gunshot residue (propellant)	Documented in-house methods (TP3003 and TP3004) using - swabbing - vacuuming - filtering
Recovered Material	Identification of in-organic gunshot residues (primer)	Documented in-house methods (TP3002 and TP3006) using - SEM/EDX
	Identification of organic gunshot residues (propellant)	Documented in-house methods (TP2002, TP2006, TP2029, TP2031, TS2023, TS2024 & TS2025) using - GC TEA - UPLC-HRMS



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<p>MARKS AND IMPRESSIONS</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of fingermarks</p>	<p>Documented in-house methods using chemical and physical enhancement techniques (method numbers provided in brackets) :</p> <ul style="list-style-type: none"> - Acid Dye Treatments: Fuschin Acid - 2% sulphosalicylic acid (TS5526), Acid Black 1 - aqueous (TP5115) - Cyanoacrylate (CNA) Fuming (TS5504 and TS5507) - Basic Yellow 40 - methanol based (BY40) (TS5508) - Rhodamine-6-G; methanol based and aqueous (TS5508) - Gentian Violet ethanol based and aqueous (TS4062) - Basic Red 14 - ethanol based (TS5508) - Safranin O – methanol based (TS5508) - Powdering Techniques (TS5528) Aluminium flake powder Black magnetic powder Black granular powder - 1,8-Diazafluoren-9-one (DFO) (TP5111) - Physical Developer (TP5119) - Ninhydrin (TP5113 and TS5523) - Sudan Black - ethanol based (TS5518) - Stabilised Iodine - aqueous (TS5524) - Leuococrystal Violet (TS5520) - Selenious Acid etching (TS5521) - ISO Mark Casting (TS5527) - 1,2-Indandione (TP5511) - Natural Yellow 3 (TP5512.)



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<p>MARKS AND IMPRESSIONS (cont'd)</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)</p>	<p>Forensic Analysis (cont'd)</p> <p>Enhancement of fingermarks (cont'd)</p>	<p>Documented in-house methods using visual and lighting enhancement techniques</p> <ul style="list-style-type: none"> - Visual examination - White Light and filtered Sources - High Intensity Light Sources (TP5501 and TS5502) <p>Crimelite Uv ($\lambda = 350-380\text{nm}$) Violet ($\lambda = 395-425\text{nm}$), Blue ($\lambda = 430-470\text{nm}$), Blue/green ($\lambda = 460-510\text{nm}$), Green ($\lambda = 500-550\text{nm}$)</p> <p>Rofin Polilight $\lambda = 350\text{nm}$ $\lambda = 415\text{nm}$ $\lambda = 450\text{nm}$ $\lambda = 450-505\text{nm}$ $\lambda = 505\text{nm}$ $\lambda = 505-530\text{nm}$ $\lambda > 530\text{nm}$</p> <p>TracER laser $\lambda = 460\text{nm}$ $\lambda = 532\text{nm}$ $\lambda = 577\text{nm}$</p> <p>Documented in-house method (TP5504) for imaging / digital capture:</p> <ul style="list-style-type: none"> - Digital SLR



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DRUGS	<p><u>Forensic Analysis (cont'd)</u></p> <p>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</p> <p>Presumptive testing for: Amphetamines Opiates MDMA</p> <p>Presumptive testing for: Cocaine</p> <p>Identification of Named controlled and non-controlled drugs:</p> <ul style="list-style-type: none"> ○ Amphetamine ○ Heroin ○ Fentanyl ○ Paracetamol ○ Methamphetamine ○ Methyltestosterone ○ Morphine ○ Oxycodone ○ Zolpidem ○ MPA ○ Testosterone ○ MMB CHIMICA ○ Gabapentin ○ Flualprazolam ○ CBD ○ CBN ○ Ketamine ○ Cocaine ○ Etizolam ○ Tetramisole ○ Temazepam ○ Delta 9 THC ○ Pregabalin ○ Methoxetamine ○ Methadone ○ 25C-NBOMe ○ Acetyl fentanyl ○ 5F AKB48 ○ Clonazepam ○ Diclazepam 	<p>Documented in house method (method ref TP1118) using spot test</p> <ul style="list-style-type: none"> - Marquis reagent <p>Documented in house method (method ref TP1118) using spot test</p> <ul style="list-style-type: none"> - Acidified Cobalt Thiocyanate colour test <p>Documented in house method (method ref TP1119) using</p> <ul style="list-style-type: none"> - UPLC-HRMS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
DRUGS (cont'd)	<u>Forensic Analysis (cont'd)</u> Identification of characteristically marked proprietary pharmaceuticals, illicit copies and other drugs products	Documented in house method (method ref TP1118) using <ul style="list-style-type: none"> - visual comparison of appearance, markings - dimensions with reference materials, data collections and descriptions in authoritative texts
END		