

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 146**

of **Nederlands Forensisch Instituut**
Defined departments (KvK: 50384511)

This annex is valid from: **06-03-2024** to **01-05-2025**

Replaces annex dated: **18-01-2023**

Location(s) where activities are performed under accreditation

Head Office

Laan van Ypenburg 6
2497 GB
The Hague
The Netherlands

Location	Abbreviation/ location code
Laan van Ypenburg 6 2497 GB The Hague The Netherlands	D
On-site	OS

No.	Material or product	Type of activity ¹	Internal reference number	Location
BDE – Toxicology				
1.	Blood, urine and vitreous humor	Determination of ethanol; headspace gas chromatography with flame ionisation detection	110201 in-house method	D
2.	Blood	Determination of carbon monoxide; visible spectrophotometry	QOL-02106 in-house method	D
3.	Whole blood, urine and vitreous humor	Determination of the content of 4-hydroxybutanoic acid (GHB) and 3-hydroxybutyric acid; LC-MS/MS	QOL-02170 in-house method	D

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on [RvA-BR010-list](#).
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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No.	Material or product	Type of activity ¹	Internal reference number	Location
4.	Blood	Identification and/or quantitative determination of drugs of abuse; LC-MS/MS Alprazolam, Amfetamine, Amitriptyline, Aripiprazol, Benzoylecgonine, Clonazepam, 7-Aminoclonazepam, Cocaïne, Codeïne, Diazepam, Desmethyldiazepam, Ethylcocaine, Fentanyl, Haloperidol, Ketamine, N-desmethylketamine, Lorazepam, MDA, MDMA, Methadon, Methylamfetamine, Methylecgonine, Midazolam, Morfine, 6-Monoacetyl-morfine, Noroxycodon, Nortriptyline, Olanzapine, Oxazepam, Oxycodon, Pregabaline, Quetiapine; N-desalkyl quetiapine, Temazepam, THC, 9-carboxy-THC, Tramadol, O-Desmethyl tramadol, Zolpidem, Zopiclon	QOL-00885 in-house method	D
CFS - Chemical Identification Investigation				
5.	Various materials, debris, liquids and Hand Sampling Kits	Identification of ignitable liquid residues by volatile organic component analysis; GC-FID and GC-MS <u>Including Opinions and Interpretations</u> Interpretation of results to determine the presence of ignitable liquid residues	260202 and 260206, QOL-00681; QOL-00797; QOL-00798; QOL-01320; and QOL-01325 in-house method	D

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No.	Material or product	Type of activity ¹	Internal reference number	Location
6.	Fire residue, soil, sludge and waste	Identification of volatile organic components; headspace gas chromatography with mass spectrometry ethanal, methanol, 2-methylbutane, trichlorofluoromethane, n-pentane, ethanol, diethylether, acetone, bromoethane, 2-propanol, carbondisulfide, acetonitrile, methylacetate, dichloromethane, 2-methyl-2-propanol, 2-propenenitrile, 2-methoxy-2-methylpropane (MTBE), n-hexane, 1,1-dichloroethane, diisopropylether, 1-propanol, 2-ethoxy-2-methylpropane (ETBE), nitromethane, 2-butanone, ethylacetate, 2-butanol, tetrahydrofurane, trichloromethane, tetrachloromethane, 2-methyl-1-propanol, benzene, 1,2-dichloroethane, 2,2,4-trimethylpentane, 2-methoxy-2-methylbutane (TAME), 3-methylbutanal, n-heptane, 1-butanol, trichloroethene, 2-ethyl-2-ethoxypropane (TAEE), propylacetate, 1,1-diethoxyethane, 4-methyl-2-pentanone, pyridin, 3-methyl-1-butanol, toluene, n-octane, 1,2-ethanediol, 1,1,2-trichloroethane, tetrachloroethene, 1,2-propaandiol, butylacetate, dimethylformamide, chlorobenzene, ethylbenzene, m-xylene, p-xylene, n-nonane, o-xylene, styrene, cumene, n-propylbenzene, 1-ethyl-3-methylbenzene, 1-ethyl-4-methylbenzene, 1,3,5-trimethylbenzene, n-decane, 1-ethyl-2-methylbenzene, a-methylstyrene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, n-undecane, propylenecarbonate, n-dodecane, benzylmethylketone, naphthalene, n-tridecane, n-tetradecane, n-pentadecane, n-hexadecane	223211 in-house method	D

CFS - Chemical Identification Investigation
Flexible scope²

7.	(Un)known chemicals and/or unknown materials	Qualitative analysis of inorganic and organic components in various matrices using chromatographic techniques; GC-FID/MS/NPD/TCD, Headspace GC-MS, GCxGC-TOF-MS, LC-MS (MS) and/or ion-chromatography	QOL-02438; QOL-02493 in-house method	D
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No.	Material or product	Type of activity ¹	Internal reference number	Location
CFS - Explosives				
8.	Watery extracts	Qualitative analysis of anions and cations; ionchromatography	QOL-00863 in-house method	D
9.	Detonators and detonator fragments	Determination of detonators; visual inspection, resistance measuring and eventually testing	163003 in-house method	D
CFS – Drugs				
10.	Powder, tablets and impregnated material	Qualitative analysis of LSD; thin layer chromatography and gas chromatography with mass spectrometry	250301 in-house method	D
11.	Powders, liquids, paste, impregnated materials and tablets	Quantitative analysis of cocaine, heroin, amphetamine and MDMA; by GC-FID	QOL-00714 in-house method	D
12.	Plant material (suspected to be cannabis), cannabis resin slabs and/or parts of slabs and oily liquids suspected to be hashish oil	Identification of cannabis, cannabis resin and hashish oil; combination of external properties, microscopy and chemical analysis	QOL-01100 in-house method	D
13.	Powders, liquids, paste, impregnated materials and tablets	Identification of common drugs; GC-MS: cocaine, heroine, MDMA, amphetamine, metamfetamine, 2C-B	QOL-00629 in-house method	D
14.	Powder and (concentrated) water solutions	Qualitative analysis of the Na- and K-salt of GHB; FT-IR	250801 in-house method	D
15.	Hashish, cannabis and cannabis oil	Quantification of THC; GC-FID	251501 in-house method	D

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CFS - Microtraces and Materials

16.	Glass	Securing glass particles from SVO's; visual inspection followed by determining reference and questioned glass by thickness, colour and presence tin layer, preparation for LA-ICP-MS analysis	261007 and 261005 in-house method	D
17.		Comparison based on the quantitative element composition; LA-ICP-MS	222104 in-house method	D
18.	Solid materials	Qualitative analysis of crystalline compounds; X-ray diffraction	260608 in-house method	D
19.		Identification of elements; XRF	INC-004227 in-house method	D
20.	Plastics, including paints and tape	Comparative analysis; optical microscopy and infrared spectrometry	INC-003591 in-house method	D
21.		Identification of materials; infrared spectrometry	INC-003590 in-house method	D
22.	Fibres and textiles	Comparative analysis of textile fibres; optical microscopy and (UV-VIS and infrared) microspectrometry	131000 and 131100 in-house method	D
23.		Characterisation of textile fibres; optical microscopy and infrared microspectrometry	131200 in-house method	D
24.		Investigation of damages and reconstructed damages in textiles; visual inspection and microscopy	132100 in-house method	D

CFS – Gunshot residues

25.	Recovered material on stubs	Analysis of gunshot residues; electron microscopy and X-ray	152000 and 152016 and QOL-00931 in-house method	D
26.	Clothing of suspects	Gunshot residue analysis; visual analysis, sampling and chemographical methods	150027, 152001, 152006, 152007, 152013, 152014 and 152016, QOL-00243; QOL-00833; and QOL-00931 in-house method	D

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27.	Clothing or pieces of skin of victims	Gunshot residue analysis; visual analysis, chemographical methods and XRF analysis	150027, 150501, 150502, 152006, 152007, 152008, 152009, 152013, 152014 and 152016, QOL-00243; QOL-00931; QOL-02346; and QOL-02537 in-house method	D
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CFS – Toolmarks

28.	Impacted objects	Comparison of toolmarks; visual inspection and microscopy	INC-002819 and INC-00893 in-house method	D
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CFS - Firearms and ammunition

29.	Ammunition	Identification of bullets and cartridge cases; visual inspection and comparison microscopy (with received firearms)	QOL-02071; QOL-02084; QOL-02070; QOL-02074; QOL-02077; QOL-02085; QOL-02076; QOL-02089 and QOL-02088 in-house method	D
30.		Identification of bullets and cartridge cases; visual inspection and comparison microscopy (without received firearms)	QOL-02071; QOL-02084; QOL-02074; QOL-02077; QOL-02085; QOL-02076; QOL-02086; QOL-02088 and QOL-02089 in-house method	D
31.		Test firing of firearms in order to identify bullets and cartridge cases	141101 in-house method	D

CFS- Non Human Biological Traces
Flexible scope³

32.	Plants, animals and micro-organisms	Identification of cell material; - morphological - PCR-sequencing and - PCR-fragment length analysis	QOL-02438, QOL-02154 and QOL-02475 in-house method	D
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BIS - Human Biological Traces

33.	Various materials	Determination of presence of biological traces: (qualitative) analysis; visual methods, microchemical, immunological and enzymatic testing	121104, 121203, 121205, 121215, 121301, 121307, QOL-00019; QOL-00324; QOL-00580; QOL-00802; QOL-00809; QOL-00828; INC-002024 and INC-004835 in-house method	D and OS
34.	Animal and human hair	Selection microscopy for DNA examination; microscopy	121307 and INC-002024 in-house method	D
35.	Various materials	DNA extraction, quantification, amplification and typing of STR-systems and the XY amelogenine gene <u>Including Opinions and Interpretations</u> Interpretation regarding comparison (forensic) DNA results on source level	122105, 122116, 122144, 122145, 122146, 122201, QOL-00017; QOL-00023; QOL-00503; QOL-00504; 121209; QOL-00678; QOL-00711; QOL-00793; QOL-00808; QOL-00934; QOL-01066; QOL-01070; and QOL-01240; QOL-01139; QOL-02579, INC-000615; INC-000815; INC-000072; INC-002043; INC-002030; INC-002046; INC-002027; INC-002053; INC-000926; and INC-004716 INC-004346 in-house method	D
36.	Various materials	Analysis, interpretation and reporting of biological paternity investigation and other biological familial relational investigation (kinship) using STR-systems and the XY amelogenine gene Sampling and identification excluded	QOL-00507; 122400; INC-002179 and QOL-01015 in-house method Analysis, interpretation and reporting in accordance with ISFG: Paternity testing commission of the International Society of Forensic Genetics 2002 and 2007 Resolution DNA investigation paternity	D
37.		Amplification and analysis of mitochondrial DNA; Massively Parallel Sequencing	INC-000072; INC-002523; QOL-2500 and INC-004348 in-house method	D

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38.	Blood traces	Blood pattern analysis (BPA): detection, recovery, identification, signification and selection (for further DNA analysis); microscopy, visual, microchemical and immunological	QOL-02464; QOL-01023; QOL-00937; QOL-00344 and INC-002024 in-house method	D and OS
39.	Various materials	RNA extraction, cDNA synthesis, amplification, typing and interpretation of RNA profiles	QOL-01075 and INC-002523 in-house method	D
40.	Raw data derived from RapidDNA method of human saliva or blood trace samples	Analysis for typing of STR systems and the XY amelogenine gene Including Opinions and Interpretations Interpretation regarding comparison (forensic) DNA results on source level	QOL-01150 in-house method	D

BIS - Human Biological Traces
Flexible scope⁴

41.	Various materials	Nucleic acid (DNA and/or RNA) extraction; silica-based DNA amplification: thermal cycling based for DNA-extracts, direct substrates and cDNA, SNP and INDEL typing Fragment analysis; capillary electrophoresis, Sequence analysis, massively parallel sequencing	QOL-02438, 124101, QOL-02506 in-house method	D
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DBS - Biometry and Fingerprints

(i.e. dactyloscopic traces originating from the ridge skin of fingers, palms or feet)

42.	Non porous materials	Fingerprint development; - cyanoacrylate treatment - basic yellow treatment after pre-treatment with cyanoacrylate - vacuum metal deposition - amidoblack treatment	184001, 184002, 184005, QOL-01122; QOL-01236; and QOL-01237 in-house method	D
43.	Non porous materials (such as tape, labels and blood on dark surfaces)	Fingerprint development by; - cyanoacrylate treatment - Gentian violet treatment - powder suspensions	184001, 184007, QOL-01238; QOL-01236 and QOL-01237 in-house method	D

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44.	Porous materials (such as paper, cardboard and unpainted wood)	Fingerprint development; -indianedionezincchlorid treatment -ninhydrine treatment -physical developer treatment	184004, 184006, QOL-01236; QOL-00923 and QOL-01237 in-house method	D
45.	Porous and non-porous materials	Fingerprint comparison by visual inspection	QOL-01128; QOL-02338 and QOL-02436 in-house method	D
46.		Fingerprint photography and digital enhancement	QOL-01200 in-house method	D

DBS – Digital Technology

47.	Non-volatile memory chips installed in embedded devices	Removing memory chips and making a bit stream copy of an exhibit	QOL-00919 in-house method	D
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