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: **17-04-2024** to **01-05-2025** Replaces annex dated: **06-03-2024**

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.	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.

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: **17-04-2024** to **01-05-2025** Replaces annex dated: **06-03-2024**

No.	Material or product	Type of activity[1]	Internal reference number	Location
3.	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		
4.	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

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: **17-04-2024** to **01-05-2025** Replaces annex dated: **06-03-2024**

No.	Material or product	Type of activity[1]	Internal reference number	Location
5.	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 scope[2]		
6.	(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

[2] **The laboratory is obliged to maintain an up-to-date list of activities performed under this flexible scope. This list can be requested from the laboratory.**

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: **17-04-2024** to **01-05-2025** Replaces annex dated: **06-03-2024**

No.	Material or product	Type of activity[1]	Internal reference number	Location
		CFS - Explosives		
7.	Watery extracts	Qualitative analysis of anions and cations; ionchromatography	QOL-00863 in-house method	D
8.	Detonators and detonator fragments	Determination of detonators; visual inspection, resistance measuring and eventually testing	163003 in-house method	D
		CFS – Drugs		
9.	Powder, tablets and impregnated material	Qualitative analysis of LSD; thin layer chromatography and gas chromatography with mass spectrometry	250301 in-house method	D
10.	Powders, liquids, paste, impregnated materials and tablets	Quantitative analysis of cocaine, heroin, amphetamine and MDMA; by GC-FID	QOL-00714 in-house method	D
11.	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
12.	Powders, liquids, paste, impregnated materials and tablets	Identification of common drugs; GC-MS: cocaïne, heroïne, MDMA, amfetamine, metamfetamine, 2C-B	QOL-00629 in-house method	D
13.	Powder and (concentrated) water solutions	Qualitative analysis of the Na- and K-salt of GHB; FT-IR	250801 in-house method	D
14.	Hashish, cannabis and cannabis oil	Quantification of THC; GC-FID	251501 in-house method	D

		CFS - Microtraces and Materials		
15.	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
16.		Comparison based on the quantitative element composition; LA-ICP-MS	222104 in-house method	D
17.	Solid materials	Qualitative analysis of crystalline compounds; X-ray diffraction	260608 in-house method	D
18.		Identification of elements; XRF	INC-004227 in-house method	D
19.	Plastics, including paints and tape	Comparative analysis; optical microscopy and infrared spectrometry	INC-003591 in-house method	D
20.		Identification of materials; infrared spectrometry	INC-003590 in-house method	D
21.	Fibres and textiles	Comparative analysis of textile fibres; optical microscopy and (UV-VIS and infrared) microspectroscopy	131000 and 131100 in-house method	D
22.		Characterisation of textile fibres; optical microscopy and infrared microspectrometry	131200 in-house method	D
23.		Investigation of damages and reconstructed damages in textiles; visual inspection and microscopy	132100 in-house method	D
		CFS – Gunshot residues		
24.	Recovered material on stubs	Analysis of gunshot residues; electron microscopy and X-ray	152000 and 152016 and QOL-00931 in-house method	D
25.	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

26.	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
		CFS – Toolmarks		
27.	Impacted objects	Comparison of toolmarks; visual inspection and microscopy	INC-002819 and INC-00893 in-house method	D
		CFS - Firearms and ammunition		
28.	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
29.		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
30.		Test firing of firearms in order to identify bullets and cartridge cases	141101 in-house method	D
		CFS- Non Human Biological Traces **Flexible scope[3]**		
31.	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

[3] **The laboratory is obliged to maintain an up-to-date list of activities performed under this flexible scope. This list can be requested from the laboratory.**

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: **17-04-2024** to **01-05-2025** Replaces annex dated: **06-03-2024**

		BIS - Human Biological Traces		
32.	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
33.	Animal and human hair	Selection microscopy for DNA examination; microscopy	121307 and INC-002024 in-house method	D
34.	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
35.	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
36.		Amplification and analysis of mitochondrial DNA; Massively Parallel Sequencing	INC-000072; INC-002523; QOL-2500 and INC-004348 in-house method	D

37.	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
38.	Various materials	RNA extraction, cDNA synthesis, amplification, typing and interpretation of RNA profiles	QOL-01075 and INC-002523 in-house method	D
39.	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 scope[4]**		
40.	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
		DBS - Biometry and Fingerprints (i.e. dactyloscopic traces originating from the ridge skin of fingers, palms or feet)		
41.	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
42.	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

[4] **The laboratory is obliged to maintain an up-to-date list of activities performed under this flexible scope. This list can be requested from the laboratory.**

43.	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
44.	Porous and non-porous materials	Fingerprint comparison by visual inspection	QOL-01128; QOL-02338 and QOL-02436 in-house method	D
45.		Fingerprint photography and digital enhancement	QOL-01200 in-house method	D
		DBS – Digital Technology		
46.	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