

Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0496

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

NIUTEC AG

Labor für Industrie und Umwelt Else Züblin-Strasse 11

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Initial accreditation: 29.04.2008

Current accreditation: 29.04.2023 to 28.04.2028

Scope of accreditation

www.sas.admin.ch see: (Accredited bodies)

Scope of accreditation as of 20.12.2023

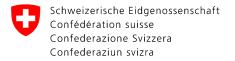
Testing laboratory for chemical analysis, methodology and development in the fields of environmental analysis, industry and medical technology

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
ENVIRONMENT		
Testing in the context of regulatory requirements: Soil (VBBo, VaB)	Sample preparation	
	Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Extraction, ITEX-Extraction, Digestion, Microwave Digestion, Enrichment	EN, EPA, ISO, VaB, VBBo
	Physical methods	
	Gravimetry: Dry residues, Ash/Ash content	FAC, FAL, DIN, ISO as well as internal methods

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¹⁾ Scope of accreditation type A (fix)

²⁾ Scope of accreditation type B (flexible) 3) Scope of accreditation type C (flexible)



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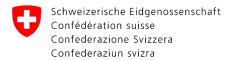
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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
ENVIRONMENT	Electrochemical and wet analytical methods	
Testing in the context of regulatory requirements: Soil (VBBo, VaB)	ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts) Titrimetric methods, Wet analyses (Organic C, pH, Carbonate)	BAFU/BUWAL, DIN, FAC, FAL, ISO, VaB, VBBo as well as internal methods
	Spectrometric methods	
	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, Chromium VI, Cyanide, Nitrite, P- and N-Groups, Silicate, Sulfide) FTIR (Hydrocarbons) TOC-NDIR (DOC, TOC)	BAFU/BUWAL, DIN, EDI, EN, FAC, FAL, ISO, SN, VaB, VBBo as well as internal methods
	Chromatographic methods	
	GC-FID (VOC, Hydrocarbons, Organic Substances) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Phenols, Nitro-Groups, Organic Substances) HPIC (Anions) LC-MS (PFAS)	BAFU/BUWAL, DIN, EN, EPA, FAC, FAL, ISO, SN, USP, VaB, VBBo as well as internal methods
	Sample preparation	
Testing in the context of regulatory requirements: Contaminated sites, Excavated sites, Waste, Soil Vapor (AltIV, AHR, VVEA)	Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Extraction, ITEX-Extraction, Digestion, Microwave Digestion, Enrichment	AltIV, BAFU/BUWAL, DIN, FAC, FAL, ISO as well as internal methods
	Physical methods	
	Gravimetry: Dry residues, Ash / Ash content	AltIV, BAFU/BUWAL, FAC, FAL, DIN, ISO as well as internal methods

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Scope of accreditation type A (fix)
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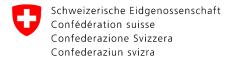
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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
ENVIRONMENT	Electrochemical and wet chemistry methods	
Testing in the context of regulatory requirements: Contaminated sites, Excavated sites, Waste, Soil Vapor (AltIV, AHR, VVEA)	ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts), O2 –Analyzer (soil vapor), Titrimetric methods, Wet analyses (Organic C, pH, Carbonate)	AltIV, BAFU/BUWAL, DIN, FAC, FAL, ISO as well as internal methods
	Spectrometric methods	
	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, Chromium VI, P- and N-Groups, Cyanide, Sulfide) FTIR (Hydrocarbons) TOC-NDIR (DOC, TOC)	AltIV, BAFU/BUWAL, DIN, EDI, EN, FAC, FAL, ISO, SN as well as internal methods
	Chromatographic methods	
	GC-FID (VOC, Hydrocarbons, Organic Substances) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Chloroalkanes, Phenols, Nitro-Groups, Organic Substances) HPIC (Anions) LC-MS (PFAS)	AltIV, BAFU/BUWAL, DIN, EN, FAC, FAL, EPA, ISO, SN as well as internal methods
	Sample preparation	
Wastewater, Surface water, Groundwater and Drinking water (GSchV, FIV, AltIV)	Extraction, Digestion, Microwave digestion, Enrichment	AltIV, BAFU/BUWAL, DIN, EDI, EPA, ISO, SLMB as well as internal methods
	Physical methods	
	Gravimetry: Dry residues, Turbidity	AltIV, BAFU/BUWAL, DIN, EDI, ISO, SLMB

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Scope of accreditation type A (fix)
 Scope of accreditation type B (flexible)



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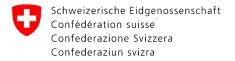
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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
ENVIRONMENT	Electrochemical and wet chemistry methods	
Wastewater, Surface water, Groundwater and Drinking water (GSchV, FIV, AltIV)	ISE (Anions), Conductivity (Extracts) Potentiometry (pH value, Extracts), Titrimetric methods, Wet analyses (Organic C, pH, Total hardness, Carbonate)	BAFU/BUWAL, DIN, EDI, EN, ISO, SLMB, SN as well as internal methods
	Spectrometric methods	
	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, BOD₅, COD, Chromium VI, P- and N- Groups, Cyanide, Silicate, Sulfide) FTIR (Hydrocarbons) TOC-NDIR (DOC, TOC)	BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SLMB, SN as well as internal methods
	Chromatrographic methods	
	GC-FID (VOC, Hydrocarbons, Organic Substances) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Aniline, Phenols, Nitro-Groups, Organic Substances) HPIC (Anions)	BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SLMB as well as internal methods
	Sample preparation	
Testing in the context of regulatory requirements: Air and Gas (LRV, AltIV, SUVA)	Extraction, ITEX-Extraction, Enrichment	BAFU/BUWAL, DIN, EDI, EPA, ISO, NIOSH, OSHA as well as internal methods
	Physical methods	
	Gravimetry: Dry residues, Ash / Ash content	DIN, ISO, NIOSH, OSHA, SUVA as well as internal methods
	Electrochemical and wet chemistry methods	
	ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts) O ₂ –Analyzer (Gases)	BAFU/BUWAL, DIN, ISO, NIOSH, OSHA, SUVA as well as internal methods

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Scope of accreditation type A (fix)
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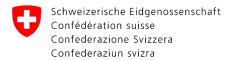
Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
ENVIRONMENT	Spectrometric methods	
Testing in the context of regulatory requirements: Air and Gas (LRV, AltIV, SUVA)	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, Chromium VI, P- and N-Groups, Cyanide, Sulfide) FTIR (Hydrocarbons) TOC-NDIR (DOC, TOC)	BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SN as well as internal methods
	Chromatrographic methods	
	GC-FID (VOC, Hydrocarbons, organic substances, oil fumes and aerosols) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Aniline, Phenols, Nitro-Groups, organic substances) HPIC (Anions)	BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SN as well as internal methods
INDUSTRY	Sample preparation	
Chemical analysis of raw materials, process media and products	Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Elution, Extraction, ITEX-Extraction, Digestion, Microwave Digestion, Enrichment	ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods
	Physical methods	
	Gravimetry: Dry residues, Ash/Ash content, Aging, Temperature, Turbidimetry, Water content in oil	ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods
	Electrochemical and wet chemistry methods	
	ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts) O ₂ –Analyzer (Gases) Titrimetric methods, Wet analyses (Organic C, pH, Total hardness, Carbonate)	ASTM, DIN, EN, EPA, ISO, NIOSH, OSHA, USP as well as internal methods

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¹⁾ Scope of accreditation type A (fix)

²⁾ Scope of accreditation type B (flexible)3) Scope of accreditation type C (flexible)



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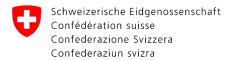
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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
INDUSTRY	Spectrometric methods	
Chemical analysis of raw materials, process media and products	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, BOD ₅ , COD, Chromium VI, Cyanide, Nitrite, P- and N-Groups, Silicate, Sulfide, spectrum acquisition) FTIR (Apolar organic residues, hydrocarbons, Oxidation, Transvinyl-Index, Identification) TOC-NDIR (DOC, TOC)	ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods
	Chromatographic methods	
	GC-FID (VOC, hydrocarbons, organic substances, oil vapor and aerosols) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Chloroalkanes, Aniline, Phenols, Nitro-Groups, organic substances) HPIC (Anions)	ASTM, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods
	Optical methods	
	Visuell, Microscopy, free iron, optical particle counting, particle counting with light obscuration	ASTM, ISO, USP as well as internal methods
	Physical methods	
	Viscosity (Ubbelohde viscometery), <i>DSC</i> (Calorimetry)	ASTM, ISO as well as internal methods
MEDICAL TECHNOLOGY	Sample preparation	
Chemical analysis of medical materials, process media, medical devices and packages	Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Extraction, ITEX-Extraction, Extraction for LC-MS Screening, Digestion, Microwave Digestion, Enrichment	ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods

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¹⁾ Scope of accreditation type A (fix)

²⁾ Scope of accreditation type B (flexible)3) Scope of accreditation type C (flexible)



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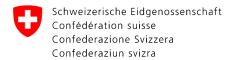
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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	Physical methods	
	Gravimetry: Dry residues, Ash / Ash content, Aging, Temper- ature, Turbidimetry, Water content in oil	ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods
MEDICAL TECHNOLOGY	Electrochemical and wet chemistry methods	
Chemical analysis of medical materials, process media, medical devices and packages	ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts) O ₂ –Analyzer (Gas) Titrimetric methods, Wet analyses (Organic C, pH, Total hardness, Carbonate)	ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods
	Spectrometric methods	
	CV-AAS (Metals) HR-CS AAS (Metals) DMA (Mercury) ICP-MS (Elements) Photometry (Ammonium, Chromium VI, Nitrite, P- and N-Groups, Silicate, Sulfide, spectrum acquisition) FTIR (Apolar organic residues, Hydrocarbons, Oxidation, Transvinyl-Index, Identification) TOC-NDIR (DOC, TOC)	ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods
	Chromatrographic methods	
	GC-FID (VOC, hydrocarbons, Lactide and Glycolide in polylactides, organic substances, Oil vapor and aerosols) GC-MS (VOC, Organic Substance Screening, Identification) GC-MS/MS (PAH, PCB, Chloroalcanes, Aniline, Phenols, Nitro-Groups, organic substances) HPIC (Anions) LC-MS (Reserpin Residuals after simulated Extraction)	ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods

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Scope of accreditation type A (fix)
 Scope of accreditation type B (flexible)



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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	Optical methods	
	Visual, Microscopy, free iron, optical particle counting, particle counting with light obscuration	ASTM, ISO, USP as well as internal methods
	Physical methods	
	Viscosity (Ubbelohde viscometery), DSC (Calorimetry)	ASTM, ISO, USP as well as internal methods

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the laboratory.

In case of contradictions in the language versions of the directories, the German version shall apply.

¹⁾ Scope of accreditation type A (fix)

²⁾ Scope of accreditation type B (flexible)

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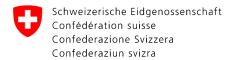
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Abbreviation	Signification
AHR	Aushubrichtlinie (Richtlinie für die Verwertung, Behandlung und Ablagerung von Mineralischem Aushub-, Abraum- und Ausbruchmaterial)
AltIV	Altlasten-Verordnung (Verordnung über die Sanierung von belasteten Standorten)
ASTM	American Society for Testing and Materials
BAFU	Bundesamt für Umwelt (Federal Office of the Environment FOEN)
BAG	Bundesamt für Gesundheit (Federal Office of Public Health FOPH)
BOD ₅	5 day biochemical oxygen demand
BUWAL	Bundesamt für Umwelt, Wald und Landschaft (heute BAFU) (Swiss Agency for the Environment, Forests and Landscapes, former name of the FOEN)
COD	Chemical oxygen demand
CV-AAS	Cold vapor atomic absorption spectroscopy
DIN	Deutsches Institut für Normung (German Institute for Standardisation)
DMA	Direct mercury analyzer
DSC	Differential scanning calorimetry
EDI	Eidgenössisches Departement des Innern (Federal Department of Home Affairs)
EN	Europäische Norm (European Norm)
EPA	US Environmental Protection Agency
FAC	Eidgenössische Forschungsanstalt für Agrikulturchemie und Umwelthygiene (Swiss Federal Research Station for Agricultural Chemistry and Environmental Hygiene)
FAL	Eidgenössische Forschungsanstalt für Agrarökologie und Landbau (Swiss Federal Research Station for Agroecology and Agriculture)
FID	Gas chromatography flame ionisation detector
FIV	Fremd- und Inhaltsstoffverordnung (Verordnung über Fremd- und Inhaltsstoffe in Lebensmitteln) (Ordinance on Foreign Substances and Ingredients in Food)
FTIR	Fourier transform infrared spectrometry
GC-MS	Gas chromatography mass spectrometry
GC-MS/MS	Gas chromatography tandem mass spectrometry
GSchV	Gewässerschutzverordnung (Water Protection Ordinance)
HPIC	High pressure ion chromatography
HR-CS AAS	High-resolution continuum source atomic absorption spectroscopy
Hydrocarbons	E.g. C10 – C 40 or C6 – C10
ICP-MS	Inductively coupled plasma mass spectrometry
ISE	Ion-selective electrode

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Scope of accreditation type A (fix)
 Scope of accreditation type B (flexible)

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Abbreviation	Signification
ISO	International Organization for Standardization
ITEX	Headspace in-tube extraction
NIOSH	National Institute for Occupational Safety and Health
O ₂ -Analyzer	Oxygen analyzer with electrochemical detection
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic aromatic hydrocarbon
РСВ	Polychlorinated biphenyls
Ph. Eur.	Europäische Pharmakopöe (European Pharmacopoeia)
SLMB	Schweizerisches Lebensmittelbuch (Swiss Food Code)
TOC-NDIR	Total organic carbon after catalytic oxidation / nondispersive infrared spectrometry
USP	U.S. Pharmacopeia (U.S. Pharmacopoeia)
VaB	Bodenaushub (Wegleitung über die Verwertung von ausgehobenem Boden) (Guidance on the utilization of excavated soil)
VBBo	Verordnung über Belastungen des Bodens (Ordinance on pollution in soil)
VVEA	Verordnung über die Vermeidung und die Entsorgung von Abfällen (Ordinance on the Prevention and Disposal of Waste)

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Scope of accreditation type A (fix)
 Scope of accreditation type B (flexible)