



STS Directory

Accreditation number: STS 0496

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 29.04.2008
Current accreditation: 29.04.2023 to 28.04.2028
Scope of accreditation see: www.sas.admin.ch
(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 Physical methods <i>Gravimetry</i> : Dry residues, Ash/Ash content	BAFU/BUWAL, DIN, FAC, FAL, EN, EPA, ISO, VaB, VBBo as well as internal methods FAC, FAL, DIN, ISO as well as internal methods



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



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<p>ENVIRONMENT</p> <p>Wastewater, Surface water, Groundwater and Drinking water (GSchV, FIV, AltIV)</p> <p>Testing in the context of regulatory requirements: Air and Gas (LRV, AltIV, SUVA)</p>	<p>Electrochemical and wet chemistry methods</p> <p><i>ISE</i> (Anions), <i>Conductivity</i> (Extracts) <i>Potentiometry</i> (pH value, Extracts), <i>Titrimetric methods</i>, <i>Wet analyses</i> (Organic C, pH, Total hardness, Carbonate)</p> <p>Spectrometric methods</p> <p><i>CV-AAS</i> (Metals) <i>HR-CS AAS</i> (Metals) <i>DMA</i> (Mercury) <i>ICP-MS</i> (Elements) <i>Photometry</i> (Ammonium, BOD₅, COD, Chromium VI, P- and N-Groups, Cyanide, Silicate, Sulfide) <i>FTIR</i> (Hydrocarbons) <i>TOC-NDIR</i> (DOC, TOC)</p> <p>Chromatographic methods</p> <p><i>GC-FID</i> (VOC, Hydrocarbons, Organic Substances) <i>GC-MS</i> (VOC, Organic Substance Screening, Identification) <i>GC-MS/MS</i> (PAH, PCB, Aniline, Phenols, Nitro-Groups, Organic Substances) <i>HPIC</i> (Anions)</p> <p>Sample preparation</p> <p>Extraction, ITEX-Extraction, Enrichment</p> <p>Physical methods</p> <p><i>Gravimetry</i>: Dry residues, Ash / Ash content</p> <p>Electrochemical and wet chemistry methods</p> <p><i>ISE</i> (Anions) <i>Conductivity</i> (Extracts) <i>Potentiometry</i> (pH value, Extracts) <i>O₂ –Analyzer</i> (Gases)</p>	<p>BAFU/BUWAL, DIN, EDI, EN, ISO, SLMB, SN as well as internal methods</p> <p>BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SLMB, SN as well as internal methods</p> <p>BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SLMB as well as internal methods</p> <p>BAFU/BUWAL, DIN, EDI, EPA, ISO, NIOSH, OSHA as well as internal methods</p> <p>DIN, ISO, NIOSH, OSHA, SUVA as well as internal methods</p> <p>BAFU/BUWAL, DIN, ISO, NIOSH, OSHA, SUVA as well as internal methods</p>



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<p>ENVIRONMENT</p> <p>Testing in the context of regulatory requirements: Air and Gas (LRV, AItIV, SUVA)</p>	<p>Spectrometric methods</p> <p>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)</p> <p>Chromatographic methods</p> <p>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)</p>	<p>BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SN as well as internal methods</p> <p>BAFU/BUWAL, DIN, EDI, EN, EPA, ISO, SN as well as internal methods</p>
<p>INDUSTRY</p> <p>Chemical analysis of raw materials, process media and products</p>	<p>Sample preparation</p> <p>Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Elution, Extraction, ITEX-Extraction, Digestion, Microwave Digestion, Enrichment</p> <p>Physical methods</p> <p>Gravimetry: Dry residues, Ash/Ash content, Aging, Temperature, Turbidimetry, Water content in oil</p> <p>Electrochemical and wet chemistry methods</p> <p>ISE (Anions) Conductivity (Extracts) Potentiometry (pH value, Extracts) O₂-Analyzer (Gases) Titrimetric methods, Wet analyses (Organic C, pH, Total hardness, Carbonate)</p>	<p>ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods</p> <p>ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods</p> <p>ASTM, DIN, EN, EPA, ISO, NIOSH, OSHA, USP as well as internal methods</p>



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<p>INDUSTRY</p> <p>Chemical analysis of raw materials, process media and products</p>	<p>Spectrometric methods</p> <p><i>CV-AAS</i> (Metals) <i>HR-CS AAS</i> (Metals) <i>DMA</i> (Mercury) <i>ICP-MS</i> (Elements) <i>Photometry</i> (Ammonium, BOD₅, COD, Chromium VI, Cyanide, Nitrite, P- and N-Groups, Silicate, Sulfide, spectrum acquisition) <i>FTIR</i> (Apolar organic residues, hydrocarbons, Oxidation, Transvinyl-Index, Identification) <i>TOC-NDIR</i> (DOC, TOC)</p> <p>Chromatographic methods</p> <p><i>GC-FID</i> (VOC, hydrocarbons, organic substances, oil vapor and aerosols) <i>GC-MS</i> (VOC, Organic Substance Screening, Identification) <i>GC-MS/MS</i> (PAH, PCB, Chloroalkanes, Aniline, Phenols, Nitro-Groups, organic substances) <i>HPIC</i> (Anions)</p> <p>Optical methods</p> <p>Visuell, Microscopy, free iron, optical particle counting, particle counting with light obscuration</p> <p>Physical methods</p> <p>Viscosity (Ubbelohde viscometer), <i>DSC</i> (Calorimetry)</p>	<p>ASTM, BAFU/BUWAL, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods</p> <p>ASTM, BAG, DIN, EN, EPA, ISO, NIOSH, OSHA, SUVA, USP as well as internal methods</p> <p>ASTM, ISO, USP as well as internal methods</p> <p>ASTM, ISO as well as internal methods</p>
<p>MEDICAL TECHNOLOGY</p> <p>Chemical analysis of medical materials, process media, medical devices and packages</p>	<p>Sample preparation</p> <p>Comminution (i.e., crushing, grinding, cutting, vibrating), Partitioning, Homogenization, Extraction, ITEX-Extraction, Extraction for LC-MS Screening, Digestion, Microwave Digestion, Enrichment</p>	<p>ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods</p>

1) Scope of accreditation type A (fix)

2) Scope of accreditation type B (flexible)

3) Scope of accreditation type C (flexible)

Definition of flexibility see SAS Document 741



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<p>MEDICAL TECHNOLOGY</p> <p>Chemical analysis of medical materials, process media, medical devices and packages</p>	<p>Physical methods</p> <p><i>Gravimetry:</i> Dry residues, Ash / Ash content, Aging, Temperature, Turbidimetry, Water content in oil</p> <p>Electrochemical and wet chemistry methods</p> <p><i>ISE</i> (Anions) <i>Conductivity</i> (Extracts) <i>Potentiometry</i> (pH value, Extracts) <i>O₂-Analyzer</i> (Gas) <i>Titrimetric methods, Wet analyses</i> (Organic C, pH, Total hardness, Carbonate)</p> <p>Spectrometric methods</p> <p><i>CV-AAS</i> (Metals) <i>HR-CS AAS</i> (Metals) <i>DMA</i> (Mercury) <i>ICP-MS</i> (Elements) <i>Photometry</i> (Ammonium, Chromium VI, Nitrite, P- and N-Groups, Silicate, Sulfide, spectrum acquisition) <i>FTIR</i> (Apolar organic residues, Hydrocarbons, Oxidation, Transvinyl-Index, Identification) <i>TOC-NDIR</i> (DOC, TOC)</p> <p>Chromatographic methods</p> <p><i>GC-FID</i> (VOC, hydrocarbons, Lactide and Glycolide in polylactides, organic substances, Oil vapor and aerosols) <i>GC-MS</i> (VOC, Organic Substance Screening, Identification) <i>GC-MS/MS</i> (PAH, PCB, Chloroalcanes, Aniline, Phenols, Nitro-Groups, organic substances) <i>HPIC</i> (Anions) <i>LC-MS</i> (Reserpin Residuals after simulated Extraction)</p>	<p>ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods</p> <p>ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods</p> <p>ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods</p> <p>ASTM, BAG, DIN, EN, EPA, ISO, Ph. Eur., USP as well as internal methods</p>

1) Scope of accreditation type A (fix)

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	<p>Optical methods</p> <p>Visual, Microscopy, free iron, optical particle counting, particle counting with light obscuration</p> <p>Physical methods</p> <p>Viscosity (Ubbelohde viscometry), DSC (Calorimetry)</p>	<p>ASTM, ISO, USP as well as internal methods</p> <p>ASTM, ISO, USP as well as internal methods</p>

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.



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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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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
PCB	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)
VBBö	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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