Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER

State Secretariat for Economic Affairs SECO
Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0028

International standard:	ISO/IEC 17025:2005
Swiss standard:	SN EN ISO/IEC 17025:2005

SPIEZ LABORATORY
Testing laboratory for the determination of radionuclides and elemental analysis
3700 Spiez
Switzerland

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Initial accreditation:	04.08.1993
Current accreditation:	11.03.2019 to 10.03.2024
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 11.03.2019

Testing laboratory for the determination of radionuclides and elemental analysis

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)
Environmental matrices	**Sampling procedures** - solids - liquids - dust in air - to FOPH (URA) supervision-program	In-house test methods
	RADIONUCLIDES	
	Gamma spectrometry	In-house test methods
Determination of radionuclide concentration in: environmental samples,	with high resolution HPGe-detectors in the energy range between about 30 and 3000 keV.	
individual people	- sample measurement	
	- in situ measurements	Dosimetry Ordinance
	- whole-body counter	(SR 814.501.43)

1) Scope of accreditation type A (fix)
2) Scope of accreditation type B (flexible)
3) Scope of accreditation type C (flexible)

Definition of flexibilty see SAS Document 741

STS Directory

Accreditation number: STS 0028

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)
	Radiochemistry	
	Radiochemical separation methods	In-house test methods
Determination of radionuclide concentration in samples of various types: environment, food, raw materials, industrial products, dust and air filters	with subsequent measurement using the following techniques: - alpha spectrometry e.g. polonium, radium, thorium, uranium, plutonium, americium, curium - low level counter (Beta) e.g. determination of isotopes of strontium Sr-89 and Sr-90 (low level) - ICP-MS e.g. thorium, uranium, neptunium, plutonium, americium, curium, technetium-99 - Liquid Scintillation e.g. tritium, triage according to gross alpha / beta, strontium	
	ELEMENTAL ANALYSIS	In-house test methods
Particulate matter, air	**Physical methods** - gravimetry / Gravikon VC-25 / PM-4	
	Spectrometric methods	
	ICP-MS / ICP-OES - heavy metals	
Activated charcoal	**Analysis of the chemical impregnation**	
	- metals by means of ICP-OES (Cr, Cr(VI), Ag, Cu, Mo, Zn) - ash content / gravimetry	
Liquid and solid samples	**Digestion and extraction methods**	
Environmental matrices	**Spectrometric methods**	
Foodstuffs	ICP-MS / ICP-OES	

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Accreditation number: STS 0028

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)**
Raw material, industrial products, dust and air filters	- heavy metals, ammunition metals - main and trace elements Thermal decomposition, amalgamation and detection with AAS - mercury in soil samples Photometry (UV/VIS) - test kits **Chromatographic methods** Ion chromatography (IC) - anions - cations	

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

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