STS Directory

Accreditation number: STS 0173

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

Paul Scherrer Institut
Department of Radiation Safety and Security
Radioanalytics Environment and Deconstruction
Forschungsstrasse 111
5232 Villigen PSI

Head:	Dr. Martin Heule and Dr. Fabian Köhler
Responsible for MS:	Dr. Veronika Heber
Telephone:	+41 56 310 31 52, - 4487
E-Mail:	martin.heule@psi.ch fabian.koehler@psi.ch
Internet:	https://www.psi.ch
Initial accreditation:	19.03.1997
Current accreditation:	18.09.2022 to 17.09.2027
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 19.01.2026

Testing laboratory for measurements and analyses of radioisotopes (in various samples)

Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Radioanalytics Environment (Dr. Martin Heule)		
Incorporation surveillance: Urine, faeces	Liquid scintillation counting (LSC), α-spectrometry in-vitro LSC methods for determination of, e. g., H-3, C-14, α–total in urine, nuclide specific methods for determination of α- and β- emitters in urine (e. g., Sr-90, Po-210, actinides) and faeces (actinides)	VARA02

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

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Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Immission surveillance: Air filters and environmental samples (water, soil, grass)	α– and γ-spectrometry, LSC, α/β proportional counting direct analysis of H-3 and γ-emitters, separation procedures for pure α– and β-emitters (e. g., C-14, Sr-90, Pu-239, Am-241)	VARA06
Emission surveillance of radionuclide releases into the vicinity of PSI: Air filters and charcoal capsules from discharge facilities and, workplace types A, B, C. Waste water samples	α- and γ-spectrometry, LSC, α/β proportional counting H-3, α–, β-, x-, and γ-direct measurements, separation procedures for pure β-emitters (e. g., H-3, Sr-90, S-35)	VARA01
Radioisotope measurements of common (solid and liquid) samples (e.g. food samples, various material samples from medicine, industry)	α- and γ-spectrometry, LSC, α/β proportional counting H-3, α-, β-, x- and γ-direct measurements Separation procedures for pure α– and β-emitters (Sr-90, Pu-239, Am-241)	VARA06
Radioanalytics Decommissioning (Dr. Fabian Köhler)		
Analyses of samples to identify surface contamination (wipe tests)	α- and γ-spectrometry, LSC, α/β proportional counting H-3, α-, β-, x- and γ-direct measurements	VARA06
Radioisotope measurements of common (solid and liquid) samples (e.g. samples from decommission projects, radioactive waste, samples from nuclear facilities, various material samples, contaminated building materials)	α- and γ-spectrometry, LSC, α/β proportional counting H-3, α-, β-, x- and γ-direct measurements separation procedures for pure α– and β-emitters (Sr-90, Pu-239, Am-241)	VARA06

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Group of products or materials, field of activity	Principle of measurement [2] (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
		Validation of all procedures is performed using certified radionuclide standard solutions and participation in international intercomparison exercises.

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

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

Definition of flexibilty see SAS Document 741