



STS Directory

Accreditation number: STS 0173

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

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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 18.09.2022

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)
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



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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)
<p>Immission surveillance: Air filters and environmental samples (water, soil, grass)</p>	<p>α- and γ-spectrometry, LSC, α/β proportional counting</p> <p>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)</p>	VARA06
<p>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</p>	<p>α- and γ-spectrometry, LSC, α/β proportional counting</p> <p>H-3, α-, β-, x-, and γ-direct measurements, separation procedures for pure β-emitters (e. g., H-3, Sr-90, S-35)</p>	VARA01
<p>Analyses of samples to identify surface contamination (wipe tests)</p>	<p>α- and γ-spectrometry, LSC, α/β proportional counting</p> <p>H-3, α-, β-, x- and γ-direct measurements</p>	VARA06
<p>Radioisotope measurements of common (solid and liquid) samples (e.g. food samples, various material samples, samples from de-commission projects)</p>	<p>α- and γ-spectrometry, LSC, α/β proportional counting</p> <p>H-3, α-, β-, x- and γ-direct measurements separation procedures for pure α- and β-emitters (Sr-90, Pu-239, Am-241)</p>	VARA06
		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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