



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: 18.09.2017 to 17.09.2022
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 03.05.2019

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)
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)



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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>Emission surveillance of radionuclide releases into the vicinity of PSI: air filters and charcoal capsules from discharge facilities and, work-place types A, B, C. Waste water samples</p> <p>Analyses of samples to identify surface contamination (wipe tests)</p> <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>α- and γ-spectrometry, LSC, α/β proportional counting</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> <p>H-3, α-, β-, x- and γ-direct measurements</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> <p>Validation of all procedures is performed using certified radionuclide standard solutions and participation in international intercomparison exercises.</p>

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