



SCS Directory

Accreditation number: SCS 0075

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 18.03.2024

Calibration laboratory for measuring instruments used for radiation protection

Calibration and Measurement Capability (CMC)

Type of radiation	Source of radiation	Measured quantity	Measuring range	Best Measurement Uncertainty \pm ¹⁾	Remarks
Photons	Cs-137	Dose equivalent and dose equivalent rate ^{1,2}	150 nSv/h ... 1.5 μ Sv/h > 1.5 μ Sv/h ... 3 Sv/h	5 % 3 %	8 sources
	Co-60	Dose equivalent and dose equivalent rate ^{1,2}	15 μ Sv/h ... 3 Sv/h	3 %	3 sources
	X-Ray unit	Dose equivalent and dose equivalent rate ^{1,2}	50 μ Sv/h ... 70 mSv/h	3 %	N-Series, 12 keV ... 250 keV
Neutrons	Am-Be	Dose equivalent and dose equivalent rate ¹	20 μ Sv/h ... 1.0 mSv/h	7 %	
	Cf-252	Dose equivalent and dose equivalent rate ¹	20 μ Sv/h ... 170 μ Sv/h	7 %	



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Type of radiation	Source of radiation	Measured quantity	Measuring range	Best Measurement Uncertainty \pm ¹⁾	Remarks
α -, β -, γ -, x -emitters	Am-241	Activity	10 Bq ... 400 kBq	7 %	Activity in non-standard geometry (phantoms)
	I-129				
	Co-60				
	Co-57				
	Cs-137				
	K-40				
	Ba-133				
	Eu-152				
Pu-239					
α -, β -, γ -, x -emitters	Am-241	Activity per unit area	0.1 Bq/cm ² ... 5 kBq/cm ²	7%	Based on the Swiss standard procedure (PSI Report No 07-01, 2007, ISSN 1019-0643, also in ISO 7503-3:2016) other nuclides are possible to determine
	C-14				
	Tc-99				
	Cl-36				
	Sr/Y-90				
	Fe-55				
	I-129				
	Co-57				
	Cs-137				
	Co-60				
β -emitters	H-3	Activity per unit volume	0.1 MBq/m ³ ... 100 MBq/m ³	10 %	

¹ $H_p(10)$, $H^*(10)$, $dH_p(10)/dt$, $dH^*(10)/dt$

² $H_p(0.07)$, $H^*(0.07)$, $dH_p(0.07)/dt$, $dH^*(0.07)/dt$

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

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