



SCS Directory

Accreditation number: SCS 0094

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

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Initial accreditation: 10.06.2002
Current accreditation: 10.06.2022 to 09.06.2027
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 01.02.2024

Calibration laboratory for volume

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Volume				
Piston-operated volumetric apparatus:	0,1 μ l ... <1 μ l	Gravimetric methods	0,011 μ l	
	1 μ l ... <2 μ l		0,012 μ l	
	2 μ l ... <10 μ l		0,013 μ l	
Single-channel piston pipettes	10 μ l ... <20 μ l		0,018 μ l	
Piston burettes	20 μ l ... <100 μ l		0,07 μ l	
Dispensers	100 μ l ... <200 μ l		0,12 μ l	
Dilutors	200 μ l ... <1000 μ l		0,4 μ l	
Manually operated precision laboratory syringes	1 ml ... <5 ml		2 μ l	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty \pm ¹⁾	Remarks
Volume	5 ml ... <10 ml	Gravimetric methods	4 μ l	
	10 ml ... <25 ml		8 μ l	
	25 ml ... <50 ml		16 μ l	
	50 ml ... <100 ml		33 μ l	
	100 ml ... <150 ml		150 μ l	
	150 ml		220 μ l	
Piston-operated volumetric apparatus:	1 μ l ... <10 μ l		0,031 μ l	
	10 μ l ... <40 μ l		0,036 μ l	
	40 μ l ... <100 μ l		0,08 μ l	
Multi-channel piston pipettes	100 μ l ... <200 μ l		0,2 μ l	
	200 μ l ... <400 μ l		0,5 μ l	
	400 μ l ... <650 μ l		0,9 μ l	
	650 μ l ... <1250 μ l		1,7 μ l	
	1250 μ l ... 1500 μ l	2 μ l		

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

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1) The given extended measurement uncertainty is the standard uncertainty of the measurement multiplied by an extension factor $k = 2$, which corresponds to a confidence level of about 95% for a normal distribution.