

ISO/IEC 17025:2017

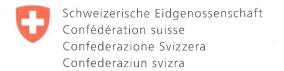
Relevant for
Sigma-Aldrich Production GmbH,
Industriestrasse 25, 9470 Buchs
An affiliate of Merck KGaA, Darmstadt, Germany

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Federal Department of Economic Affairs, Education and Research EAER **State Secretariat for Economic Affairs SECO** Swiss Accreditation Service SAS

Swiss Confederation

Based on the Accreditation and Designation Ordinance dated 17 June 1996 and on the advice of the Federal Accreditation Commission, the Swiss Accreditation Service (SAS) grants to

Sigma-Aldrich Production GmbH Industriestrasse 25 9470 Buchs



Period of accreditation: 05.09.2022 until 04.09.2027

(1st accreditation: 14.09.2007)

the accreditation as

Testing laboratory for chemical, physical and microbiological analyses for certification of reference materials

International standard: ISO/IEC 17025:2017

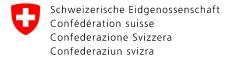
Swiss standard: SN EN ISO/IEC 17025:2018

3003 Berne, 29.08.2022

Swiss Accreditation Service SAS

Head of SAS Konrad Flück

SAS is a signatory of the multilateral agreements of the European co-operation for Accreditation (EA) for the fields of testing, calibration, inspection and certification of management systems, certification of personnel and certification of products, processes and services, of the International Accreditation Forum (IAF) for the fields of certification of management systems and certification of products, processes and services and of the International Laboratory Accreditation Cooperation (ILAC) for the fields of testing, calibration and inspection.



Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0490

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 05.09.2007

Current accreditation: 05.09.2022 to 04.09.2027

Scope of accreditation

see:

www.sas.admin.ch (Accredited bodies)

Scope of accreditation as of 25.04.2023

Testing laboratory for chemical, physical and microbiological analyses for certification of reference materials

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
CHEMICAL REFERENCE MATERIALS		
Organic compounds	Spectrometry	
	Identity by NMR	in-house procedures
	Determination of content using:	
	Quantitative high-performance NMR (qNMR)	in-house procedures
	Chromatography	
	Quantitative determination of main and minor components using:	
	- LC-MS (IDMS)	in-house procedures
	- LC-MS	in-house procedures

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¹⁾ Scope of accreditation type A (fix)

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

Federal Department of Economic Affairs, Education and Research EAER

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	- LC-CAD	in-house procedures
	- LC-UV	in-house procedures
	- GC-MS	in-house procedures
	- GC-FID	in-house procedures
	- GC-MS (IDMS)	in-house procedures
Organic and inorganic compounds	Gravimetry	
	Mass determination by high-precision weighing	in-house procedures
Organic and inorganic compounds	Titration	
	Quantitative determination of main component by metrological high-precision titration	in-house procedures
Organic and inorganic compounds	Spectrometry	
	Quantitative determination of main component using:	
	- ICP-OES	in-house procedures
	Quantitative determination of minor components using	
	- ICP-MS	in-house procedures
	- AAS	in-house procedures
	- ICP-OES	in-house procedures
Organic and inorganic compounds	Chromatography	
	Quantitative determination of main and minor components using IC	in-house procedures
Solutions	Gravimetry	
	Gravimetric preparation of homogeneous solutions using pure or highly pure starting materials	in-house procedures
Solutions	Physical methods	
	Determination of density by oscillating U-tube	standardized procedure
	Gravimetric density determination with volumetric flask	in-house procedures
Solutions	Titration	

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Swiss Accreditation Service SAS

STS Directory

Accreditation number: STS 0490

Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	Quantitative determination of main component by metrological high-precision titration	in-house procedures
Solutions	Chromatography	
	Quantitative determination of main and minor components using:	
	- IC	in-house procedures
	- LC-UV	in-house procedures
	- LC-CAD	in-house procedures
	- LC-MS	in-house procedures
	- LC-MS (IDMS)	in-house procedures
	- GC-MS	in-house procedures
	- GC-MS (IDMS)	in-house procedures
	- GC-FID	in-house procedures
Solutions	Spectrometry	
	Quantitative determination of main component using:	
	- ICP-OES	in-house procedures
	Quantitative determination of minor components using:	
	- ICP-MS	in-house procedures
	- ICP-OES	in-house procedures
	- AAS	in-house procedures
	Determination of content using quantitative high-performance NMR (qNMR)	in-house procedures
	Identity by NMR	in-house procedures
FOOD		
Milk powder	Chromatography	
	Determination of content using LC-MS (IDMS)	in-house procedures
MICROBIOLOGICAL REFERENCE MATERIALS		
Plano-convex discs	Cultural methods for the quantification of:	in-house procedures

1) Scope of accreditation type A (fix)

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

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Group of products or materials, field of activity	Principle of measurement ³⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	Bacteria	
	Yeast	
	Mould	

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

The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the testing laboratory.

Abbreviation	Signification
AAS	Atomic absorption spectrometry
CAD	Charged aerosol detector
CRM	Certified reference material
GC-FID	Gas chromatography with flame ionization detector
GC-MS	Gas chromatography coupled with mass spectrometry
IC	Ion chromatography
ICP-MS	Inductively coupled plasma combined with mass spectrometry
ICP-OES	Inductively coupled plasma optical emission spectrometry
IDMS	Isotope dilution mass spectrometry
LC-CAD	Liquid chromatography with charged aerosol detector
LC-MS	Liquid chromatography coupled with mass spectrometry
LC-UV	Liquid chromatography with ultraviolet detection
NMR	Nuclear magnetic resonance

