



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,
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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

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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	<i>Spectrometry</i> Identity by NMR Determination of content using: Quantitative high-performance NMR (qNMR) <i>Chromatography</i> Quantitative determination of main and minor components using: - LC-MS (IDMS) - LC-MS	 in-house procedures in-house procedures in-house procedures in-house procedures



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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)
Organic and inorganic compounds	- 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	<i>Gravimetry</i> Mass determination by high-precision weighing	in-house procedures
Organic and inorganic compounds	<i>Titration</i> Quantitative determination of main component by metrological high-precision titration	in-house procedures
Organic and inorganic compounds	<i>Spectrometry</i> Quantitative determination of main component using:	in-house procedures
	- ICP-OES	
	Quantitative determination of minor components using	
	- ICP-MS	
	- AAS	in-house procedures
	- ICP-OES	in-house procedures
Organic and inorganic compounds	<i>Chromatography</i> Quantitative determination of main and minor components using IC	in-house procedures
	Solutions	<i>Gravimetry</i> Gravimetric preparation of homogeneous solutions using pure or highly pure starting materials
Solutions	Physical methods Determination of density by oscillating U-tube	standardized procedure
	Gravimetric density determination with volumetric flask	in-house procedures
Solutions	<i>Titration</i>	



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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)
Solutions	Quantitative determination of main component by metrological high-precision titration <i>Chromatography</i> Quantitative determination of main and minor components using:	in-house procedures
	<ul style="list-style-type: none">- IC- LC-UV- LC-CAD- LC-MS- LC-MS (IDMS)- GC-MS- GC-MS (IDMS)- GC-FID	in-house procedures in-house procedures in-house procedures in-house procedures in-house procedures in-house procedures in-house procedures in-house procedures
Solutions	<i>Spectrometry</i> Quantitative determination of main component using:	
	<ul style="list-style-type: none">- ICP-OES	in-house procedures
	Quantitative determination of minor components using:	
	<ul style="list-style-type: none">- ICP-MS- ICP-OES- AAS	in-house procedures in-house procedures in-house procedures
	Determination of content using quantitative high-performance NMR (qNMR)	in-house procedures
	Identity by NMR	in-house procedures
FOOD Milk powder	<i>Chromatography</i> Determination of content using LC-MS (IDMS)	in-house procedures
MICROBIOLOGICAL REFERENCE MATERIALS Plano-convex discs	<i>Cultural methods for the quantification of:</i>	in-house procedures



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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

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