

Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

## STS Directory

**Accreditation number: STS 0119** 

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

Federal Institute of Metrology

**METAS** 

Prüflaboratorium STS 0119

Abteilung Chemie und Biologie

Lindenweg 50 3003 Bern-Wabern Head: Dr. Markus Stadler

Responsible for MS: Gabriel Guerry

Dr. Dominik Moor

Telephone: +41 58 387 09 46

E-Mail: <u>markus.stadler@metas.ch</u>

Internet: <a href="http://www.metas.ch">http://www.metas.ch</a>

Initial accreditation: 18.07.1995

Current accreditation: 25.08.2020 to 24.08.2025

Scope of accreditation

see:

www.sas.admin.ch (Accredited bodies)

#### Scope of accreditation as of 25.09.2023

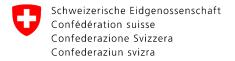
#### Testing laboratory for chemical, physical, biological and sensorial examinations

Group of products or materials, field of activity	Principle of measurement <sup>3)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
FOOD AND ANIMAL FEED	Chromatography	
	Gas Chromatography (GC)  - GC-FID  - GC-MS  - GC-MS-MS	In-house test methods
	Spectrometry / Spectroscopy	In-house test methods
	- NIR - ICP OES - ICP-MS - AAS	
	Electrochemical methods	In-house test method
	- Ionselective titration	

26.09.2023 / V plb/bgs 0119stsvz en.docx 1/5

<sup>1)</sup> Scope of accreditation type A (fix)

<sup>2)</sup> Scope of accreditation type B (flexible)3) Scope of accreditation type C (flexible)



Federal Department of Economic Affairs, Education and Research EAER

#### State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

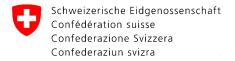
# **STS Directory**

## **Accreditation number: STS 0119**

FOODSTUFFS INCL. RAW MATERIAL, ADDITIVES, FEEDSTUFFS, NUCLEIC ACIDS  FOODSTUFFS, NUCLEIC ACIDS  FOODSTUFFS, NUCLEIC COMBERT (Company)  FOODSTUFFS, NUCLEIC ACIDS  Commercial Kits, modified  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures	Group of products or materials, field of activity	Principle of measurement <sup>3)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
- Titration (colorimetric-visual determination)  Physical methods  - Electronic density measurement - Gravimetry - Refractometry  Biochemical methods  - Enzymatics (enzymatic reaction with subsequent determination with UV-VIS)  Sample preparation - Distillation - Microwave digestion - Extraction - Preparative liquid chromatography  Molecular biological methods of GMOs and viruses:  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  Ethyl alcohol and Denaturants  - Titration (colorimetric-visual determination in In-house test methods  Conventional Commercial Kits, modified  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures		Wet chemistry methods	In-house test methods, standard procedures
FOODSTUFFS INCL. RAW MATERIAL, ADDITIVES, FEEDSTUFFS, Nucleic Acids  FOUR Tight of Conventional PCR and agarose gel electrophoresis  Point Alcohol and Denaturants  Fathyl Alcohol and Denaturants  Find a Carbon with a converse of the procedures of the procedure of the p		- Titration (colorimetric-visual de-	
- Gravimetry - Refractometry  Biochemical methods - Enzymatics (enzymatic reaction with subsequent determination with UV-VIS)  Sample preparation - Distillation - Microwave digestion - Extraction - Preparative liquid chromatography  Molecular biological methods of GMOs and viruses:  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  ETHYL ALCOHOL AND DENATURANTS  Gas Chromatography (GC)  In-house test methods  In-house test methods  In-house test methods  Commercial Kits, modified  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures  Standard procedures  Standard procedures		Physical methods	In-house test methods, standard procedures
- Enzymatics (enzymatic reaction with subsequent determination with UV-VIS)  Sample preparation - Distillation - Microwave digestion - Extraction - Preparative liquid chromatography  Molecular biological methods of GMOs and viruses:  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  ETHYL ALCOHOL AND DENATURANTS  - Enzymatics (enzymatic reaction with subsequent determination with UV-VIS)  In-house test methods  In-house test methods  - Commercial Kits, modified  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures		- Gravimetry	
with subsequent determination with UV-VIS)  Sample preparation  - Distillation  - Microwave digestion  - Extraction  - Preparative liquid chromatography  Molecular biological methods of GMOs and viruses:  - Nucleic acid extraction  - Qualitative and quantitative real-time RT-PCR  - Qualitative and quantitative real-time PCR  - Qualitative and quantitative real-time PCR  - Qualitative and quantitative real-time PCR  - Digital PCR and agarose gel electrophoresis  - Digital PCR  Chromatography  Gas Chromatography (GC)  In-house test methods  In-house test methods  In-house test methods  Commercial Kits, modified  Standard procedures, in-house methods  Standard procedures, in-house methods  Standard procedures  Standard procedures  Standard procedures		Biochemical methods	In-house test methods
FOODSTUFFS INCL. RAW MATERIAL, ADDITIVES, FEEDSTUFFS, NUCLEIC ACIDS  Molecular biological methods of GMOs and viruses:  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  ETHYL ALCOHOL AND DENATURANTS  - Distillation - Microwave digestion - Extraction - Commercial Kits, modified - Standard procedures, in-house methods - Standard procedures		with subsequent determination	
- Microwave digestion - Extraction - Preparative liquid chromatography  FOODSTUFFS INCL. RAW MATERIAL, ADDITIVES, FEEDSTUFFS, NUCLEIC ACIDS  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  ETHYL ALCOHOL AND DENATURANTS  - Microwave digestion - Extraction - Commercial Kits, modified - Standard procedures, in-house methods - Standard procedures		Sample preparation	In-house test methods
MATERIAL, ADDITIVES, FEEDSTUFFS, NUCLEIC ACIDS  - Nucleic acid extraction - Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR - Chromatography  Gas Chromatography (GC)  - Nucleic acid extraction - Commercial Kits, modified - Standard procedures, in-house methods - Standard procedures		<ul><li>Microwave digestion</li><li>Extraction</li><li>Preparative liquid chromatog-</li></ul>	
- Qualitative and quantitative real-time RT-PCR - Qualitative and quantitative methods - Qualitative and quantitative real-time PCR - Conventional PCR and agarose gel electrophoresis - Digital PCR  ETHYL ALCOHOL AND DENATURANTS  Chromatography  Gas Chromatography (GC)  Standard procedures, in-house methods  Standard procedures	MATERIAL, ADDITIVES,		
real-time RT-PCR  - Qualitative and quantitative real-time PCR  - Conventional PCR and agarose gel electrophoresis  - Digital PCR  Chromatography  Gas Chromatography (GC)  methods  Standard procedures, in-house methods  Standard procedures  Standard procedures  Standard procedures  Standard procedures  Standard procedures		- Nucleic acid extraction	Commercial Kits, modified
real-time PCR  - Conventional PCR and agarose gel electrophoresis  - Digital PCR  Standard procedures  Standard procedures  Chromatography  Gas Chromatography (GC)  Standard procedures, in-house methods			Standard procedures, in-house test methods
gel electrophoresis  - Digital PCR  Standard procedures  Chromatography  Gas Chromatography (GC)  Standard procedures, in-house methods			Standard procedures, in-house test methods
ETHYL ALCOHOL AND DENATURANTS  Chromatography  Gas Chromatography (GC)  Standard procedures, in-house methods			Standard procedures
DENATURANTS  Gas Chromatography (GC)  Standard procedures, in-house methods		- Digital PCR	Standard procedures
methods		Chromatography	
- GC-FID		Gas Chromatography (GC)	Standard procedures, in-house test methods
		- GC-FID	

26.09.2023 / V plb/bgs 0119stsvz en.docx 2/5

<sup>1)</sup> Scope of accreditation type A (fix)



Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

# **STS Directory**

## **Accreditation number: STS 0119**

Group of products or materials, field of activity	Principle of measurement <sup>3)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
	Spectrometry / Spectroscopy  - UV/VIS - IR - ICP-MS - Turbidimetry	Standard procedures
	Electrochemical methods	Standard procedures
	- Coulometry: KF titration	
	Wet chemistry methods	Standard procedures
	- Titration (Colorimetric-visual determination)	
	Physical methods	Standard procedures, in-house test methods
	<ul><li>Electronic density measurement</li><li>Flash point</li><li>Gravimetry</li><li>Refractometry</li></ul>	
	Sensory procedures	Standard procedures
	<ul><li>olfactory examination</li><li>visual examination</li></ul>	
PRUFIED WATER	Physical methods	Standard procedures
	- Electronic density measurement	
MINERAL SUBSTANCES (INCL. PETROLEUM PRODUCTS) AND BIODIESEL	Chromatography	In-house test method
	Liquid Chromatography (HPLC)	
	- HPLC-UV/VIS	
	Physical methods	Standard procedures, in-house test methods
	<ul> <li>Gravimetry</li> <li>Densitiy</li> <li>Cold filter plugging point (CFPP)</li> <li>Flash point</li> <li>Viscosity</li> <li>Distillation</li> </ul>	

26.09.2023 / V plb/bgs

1) Scope of accreditation type A (fix)

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

0119stsvz en.docx

3/5

Federal Department of Economic Affairs, Education and Research EAER

#### State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

### **STS Directory**

#### **Accreditation number: STS 0119**

Group of products or materials, field of activity	Principle of measurement <sup>3)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
PRODUCTS OF THE CHEMICAL OR ALLIED INDUSTRIES	Chromatography	In-house test methods
	Gas Chromatography (GC)	
	- GC-FID - GC-MS	
	Electrochemical methods	In-house test methods
	<ul><li>Coulometry: KF titration</li><li>pH-determination</li><li>pH titration</li></ul>	
	Physical methods	Standard procedures, in-house test methods
	<ul><li>Gravimetry</li><li>Viscosity</li><li>Flash point</li><li>Refractometry</li></ul>	
ESSENTIAL OILS, PREPARED FRAGRANCES AND COSMETICS	Electrochemical methods	Standard procedures, in-house test methods
	<ul><li>Coulometry: KF titration</li><li>Ionselective titration</li><li>pH titration</li><li>pH-determination</li></ul>	
	Physical methods	Standard procedures, in-house test methods
	- Flash point - Gravimetry - Viscosity	

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

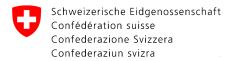
The testing laboratory maintains a list with detailed information on the activities within the scope of accreditation. It is available upon request at the testing laboratory.

Abbreviation	Signification
FID	Flame ionisation detector
MS	Mass spectrometer
MS-MS	Two mass spectrometers connected in series
UV-VIS	Spectroscopy in the ultraviolet and visible range (ca 200 – 760 nm)
IR	Spectroscopy in the infrared range (ca 760 – 2500 nm)
NIR	Spectroscopy in the near infrared range (ca 760 – 1400 nm)

26.09.2023 / V plb/bgs 0119stsvz en.docx 4/5

<sup>1)</sup> Scope of accreditation type A (fix)

<sup>2)</sup> Scope of accreditation type B (flexible)



Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO

Swiss Accreditation Service SAS

# **STS Directory**

### **Accreditation number: STS 0119**

Abbreviation	Signification
ICP-OES	Inductively Coupled Plasma combined with optical emission spectroscopy
ICP-MS	Inductively Coupled Plasma combined with mass spectrometry
AAS	Atomic absorption spectrometry
KF Titration	Karl-Fischer titration (coulometric method to determine quantitatively water)
Chemilumine- scence TN	Method for the determination of total nitrogen (TN)

\*/\*/\*/\*