



Organisme belge d'Accréditation
Belgische Accreditatieinstelling
Belgische Akkreditierungsstelle
Belgian Accreditation Body

EA MLA Signatory

Annex to the accreditation certificate
Bijlage bij accreditatiecertificaat
Annexe au certificat d'accréditation
Beilage zur Akkreditierungszertifikat

268-RM

EN ISO 17034:2016

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Maureen Logghe

Chair of the Accreditation Board
Voorzitster van het Accreditatiebureau
La Présidente du Bureau d'Accréditation
Vorsitzende des Akkreditierungsbüro

The accreditation is granted to / De accreditatie werd uitgereikt aan /
L'accréditation est délivrée à / Die akkreditierung wurde erteilt für:

**European Commission
Wetstraat 200
1040 Brussels**

Sites of activities / Activiteitencentra / Sites d'activités / Standorte mit aktivitäten:

JOINT RESEARCH CENTRE (JRC) Directorate F, Unit F.6 - Geel site	Retieseweg 111 2440 Geel
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Accréditation
Service public fédéral Economie
P.M.E., Classes moyennes et Energie
Bd du Roi Albert II 16 - 1000 Bruxelles
Numéro d'entreprise : 0314.595.348

Accreditatie
Federale Overheidsdienst Economie
K.M.O., Middenstand en Energie
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FLEXIBLE SCOPE - GEEL SITE				
Internal code (category)	Product/matrix	Parameter/Property	Type of reference material (certified reference material, reference material or both)	Characterisation approach/procedure
Reference materials for chemical composition and for physical/electro-chemical properties				
1	Biological material of plant, human or animal origin (including food and feed products)	Mass fraction/ mass concentration of elements	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
2		Mass fraction/ mass concentration of organic molecules	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
3		Mass fraction of genetically modified material (GMO)	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
4		Mass fraction/ mass concentration of peptides/ proteins	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
5		Properties described by international standard ISO 13366	RM & CRM	Characterisation based on mass or volume of ingredients used in the preparation of the RM
6	Aqueous solutions and organic liquids	Mass fraction/ mass concentration of peptides/ proteins	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
7		Catalytic activity concentration	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories

8		Mass concentration of total DNA, copy number concentration/ratio of specific DNA fragments	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
9	Aqueous solutions and organic liquids	Mass fraction/ mass concentration of small organic molecules	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
10		Physical and chemical properties described by international standards EN 590 and EN 14214	RM & CRM	Characterisation using a single reference measurement procedure (as defined in ISO/IEC Guide 99) in a single laboratory
11		Stable isotope amount-of-substance ratio	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
12	Water	Mass fraction/ mass concentration of elements and inorganic compounds	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
13		Physical properties: conductivity - pH - density	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
14	Soils, sludges, sediments, and dust	Mass fraction of elements	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
15	Soils, sludges, sediments, and dust	Mass fraction of organic molecules	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories

16	Solid industrial materials (such as metals, alloys, coals, cokes, plastics, insulation materials)	Mass fraction of elements	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
17		Physical properties: calorific value - ash - volatile matter - thermal conductivity	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
18	Suspensions of nanoparticles and sub-micrometre particles	Particle size/shape Electrophoretic mobility Zeta potential	RM & CRM	Characterisation of a non-operationally defined measurand using two or more methods of demonstrable accuracy in one or more competent laboratories
19		Absorbed energy (KV) according to ISO 148 (Impact toughness)	RM & CRM	Characterisation of an operationally-defined measurand using a network of laboratories
	Steel			Value transfer from an RM to a closely matched candidate RM performed using a single measurement procedure performed by one laboratory
A detailed list of the reference materials covered under accreditation (containing the information as required by BELAC 2-111) is maintained by, and available upon request from, the reference material producer.				



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268-TEST

EN ISO/IEC 17025:2017

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JOINT RESEARCH CENTRE (JRC) Directorate F, Unit F.4, Unit F.5 & Unit F.6 - Ispra site	Via Enrico Fermi 2749 21027 Ispra (VA) Italy

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LIST OF ABBREVIATIONS:

DNA	Deoxyribonucleic acid
EA-IRMS	Elemental Analyser - Isotope Ratio Mass Spectrometer
GC-MS	Gas chromatography – Mass Spectrometry
HPLC	High-Performance Liquid Chromatography
HPLC-DAD	High-Performance Liquid Chromatography with Diode-Array Detection.
HPLC-FLD	High Performance Liquid Chromatography with Fluorescence Detection
HPLC-UV	High-Performance Liquid Chromatography with UV Detector
ICP-MS	Inductively Coupled Plasma Mass Spectrometry
ICP-OES	Inductively Coupled Plasma Optical Emission Spectrometry
IRMS	Isotope-Ratio Mass Spectrometer
LC-MS	Liquid Chromatography - Mass Spectrometry
OIV	International Organisation of Vine and Wine
PCR	Polymerase Chain Reaction
SNIF-NMR	Site Specific Natural Isotope Fractionation studied by Nuclear Magnetic Resonance
UPLC-MS/MS	Ultra Performance Liquid Chromatography - Tandem Mass Spectrometer

Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Equipment or Techniques used
FLEXIBLE SCOPE - GEEL SITE		
Feed	Fat soluble vitamins and pro-vitamins	Reverse-phase HPLC with UV and fluorescence detection
Feed	Coccidiostats	HPLC coupled to optical or mass spectrometry detectors
Food and Feed	Genetically Modified content in % (m/m) and % (cp/cp) (**)	DNA extraction, DNA identification and Real-time PCR
Food and Feed	Genetically Modified content in % (cp/cp) (**)	DNA extraction and digital PCR
Pure DNA solutions	DNA copy number	digital PCR
Food and related materials (*)	Elements	ICP-OES, ICP-MS
Food and Feed	Pesticides	GC-MS(/MS), (UP)LC-MS/MS
Organic solvent	Explosives	HPLC-DAD
Biological and environmental matrices	Water content	Volumetric Karl-Fischer titration

FLEXIBLE SCOPE - ISPRA SITE		
Plastics and plastic coated metal food contact materials	Migrated substances from materials in contact with food	In house method according to Regulation (EU) No 10/2011 HPLC-UV/FLD
Food and Feed	Genetically Modified content in % (cp/cp) (**)	DNA extraction and digital PCR
Food and Feed	Genetically Modified content in % (m/m) and % (cp/cp) (**)	DNA extraction, DNA identification and Real-time PCR
<i>In the framework of its accreditation, the laboratory is authorized to determine all parameters belonging to the group of parameters mentioned in the second column for all matrices belonging to the group of matrices mentioned in the first column. This authorization is given, provided that an appropriate validation is performed according to the general validation concept as set out in the laboratory's quality system. The laboratory keeps a detailed list of the parameters and matrices, belonging to the above mentioned groups, up-to-date for anyone involved.</i> <i>(*) Testing is performed in the context of reference material production rather than on routine samples. Measurement uncertainties of the results are reflected in the certified uncertainties and studies can be adapted to achieve the target uncertainty of certified values for a given measurement uncertainty.</i> <i>(**) m/m : mass to mass, cp/cp : copynumber to copynumber</i>		

Internal code	Test sample/ Product/ Matrix	Property determined/ Parameter determined/ Type of test	Standard specifications Equipment or Techniques used
FIXED SCOPE - GEEL SITE			
WI-D-00138	Biological matrices	Water content	Coulometric Karl-Fischer titration - In house method
WI-D-00042	Biological, environmental and industrial matrices	Particle size distribution	Laser light diffraction - In house method
WI-D-00170	Metals and alloys	Absorbed energy (KV) Impact toughness	ISO 148
WI-D-00561	Nanoparticles	Characteristic parameters of particle size distributions	Centrifugal Liquid Sedimentation (disc-type) (method 2 only for precision testing) - In house method
WI-D-00334			Dynamic Light Scattering - In house method
WI-D-00728			Particle Tracking Analysis - In house method
WI-D-00983			Centrifugal Liquid Sedimentation (cuvette-type) In house method
WI-D-00771	Wines	Deuterium isotope ratios D/H	SNIF-NMR OIV-MA-AS311-05
WI-D-00959	Wines	¹⁸ O / ¹⁶ O isotopic ratio of water wine	Gas Bench - IRMS OIV-MA-AS2-12
WI-D-00947	Wines	¹³ C / ¹² C isotopic ratio of wine ethanol	EA-IRMS OIV-MA-AS312-06
WI-D-00602	Sub-micrometre particles	Zeta potential	Electrophoretic Light Scattering - In house method
WI-D-00971	Cookies	Total cow's milk protein	LC-MS - In house method

FIXED SCOPE - ISPRA SITE				
WI-D-00804	Water/alcohol 50:50 %	Content of Bisphenol A	HPLC-FLD - In house method	
WI-D-00803	Oil food simulant	Content of Bisphenol A	HPLC-FLD - In house method	



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268-PT

EN ISO/IEC 17043:2010

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FLEXIBLE SCOPE - GEEL SITE				
Field	Sample matrix categories	Properties determined	Type of proficiency testing scheme (see ISO/IEC 17043, annex A)	
Food and feed products	Feed	Content of element or inorganic species Content of organic molecule	Simultaneous participation scheme	
FLEXIBLE SCOPE - ISPRA AND GEEL SITE				
Field	Sample matrix categories	Properties determined	Type of proficiency testing scheme (see ISO/IEC 17043, annex A)	
Food and feed products	Food & Feed	Genetically Modified content in % (m/m) and % (cp/cp) *	Simultaneous participation scheme	
Food and feed products	Food	Content of element or inorganic species Content of organic molecule	Simultaneous participation scheme	
Food and feed products	Food Contact Materials	Content of element or inorganic species Content of organic molecule	Simultaneous participation scheme	
A more detailed version of this scope (addendum on the organisation of ILC's: compilation of past activities) is available upon request from the PT provider. (*) m/m : mass to mass, cp/cp : copynumber to copynumber				