

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-20061-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 01.06.2021

Date of issue: 01.06.2021

Holder of certificate:

IfM GmbH & Co. KG

at the locations:

Marie-Curie-Straße 8, 27283 Verden

Tests in the fields:

**Physical, physico-chemical, chemical, immunological, molecular biological and microbiological
analysis of milk and milk products**

Microbiological analysis of foodstuffs

Veterinary medicine

Test areas:

Immunology

Microbiology

For the test areas marked with *, the testing laboratory is permitted to freely select standard test methods or equivalent methods without obtaining prior notification and consent from DAkkS.

The test methods listed are given by way of example.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue.

The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/content/accredited-bodies-dakks>.

Abbreviations used: see last page

Page 1 of 7

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

The testing laboratory is permitted to apply the listed standardised or equivalent test methods with different versions of the standards without obtaining prior notification and consent from DAkkS.

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

1 Foodstuffs

1.1 Physical, physico-chemical and chemical analysis of milk

DIN EN ISO 5764 2009-10	Milk – Determination of freezing point – Thermistor cryoscope method (Reference method)
ASU L 01.01-1 1998-09	Analysis of foodstuffs – Enumeration of somatic cells in raw milk (fluorescence-optical enumeration)
ASU L 01.01-7 2002-05	Analysis of foodstuffs – Determination of bacterial count in raw milk – Flow cytometry enumeration of microorganisms (routine method)
ASU L 01.00-78 2018-06	Analysis of foodstuffs – Milk and liquid milk products – Guidelines for the application of mid-infrared spectrometry (adoption of standard of the same name DIN ISO 9622, April 2017)
VDLUFA VI C 8.2 1985-01	Milk – Chemical and physical test methods – Acidity – pH in milk and milk products
VDLUFA VI C 13.3.1 2003-01	Milk – Chemical and physical test methods – Heat detection – Short-term heat detection (Lactognost® test)
HM IFM MET 006 1995-05	Determination of the urea content in milk – Infrared measurement with PLS calibration
HM IFM MET 007 1996-08	Determination of the freezing point in milk by measurement of infrared absorption and conductivity – Routine procedure

1.2 Microbiological analyses

1.2.1 Determination of bacteria, yeasts and moulds in foodstuffs by cultural microbiological analysis

ISO 15213 2003-05	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of sulphite-reducing bacteria growing under anaerobic conditions (Modification: <i>Matrix only foodstuffs</i>)
DIN ISO 16649-2 2009-12	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of β -glucuronidase-positive Escherichia coli – Part 2: Colony-count technique at 44 °C using 5-bromo-4-chloro-3-indolyl β -D-glucuronide (Modification: <i>Matrix only foodstuffs</i>)
DIN ISO 21528-2 2017-09	Microbiology of food and animal feeding stuffs – Horizontal methods for the detection and enumeration of Enterobacteriaceae – Part 2: Colony-count method (Modification: <i>Matrix only foodstuffs</i>)
DIN EN ISO 6579 2017-12	Microbiology of food and animal feeding stuffs – Horizontal method for the detection of Salmonella spp. (Modification: <i>Matrix only foodstuffs, without Annex D</i>)
DIN EN ISO 6888-1 2019-06	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 1: Technique using Baird-Parker agar medium (Modification: <i>Matrix only foodstuffs</i>)
DIN EN ISO 6888-2 2003-12	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) – Part 2: Technique using rabbit plasma fibrinogen agar medium (Modification: <i>Matrix only foodstuffs</i>)
DIN EN ISO 7932 2005-03	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of presumptive Bacillus cereus – Colony-count technique at 30 degrees C (Modification: <i>Matrix only foodstuffs</i>)
DIN EN ISO 7937 2004-11	Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of Clostridium perfringens – Colony-count technique (Modification: <i>Matrix only foodstuffs</i>)

Annex to the accreditation certificate D-PL-20061-01-00

DIN EN ISO 11290-1 2017-09	Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> – Part 1: Detection method (Modification: <i>Matrix only foodstuffs</i>)
DIN 10186 2005-10	Microbiological analysis of milk – Enumeration of yeasts and moulds – Reference method
ASU L 00.00-88/1 2015-06	Analysis of foodstuffs – Horizontal method for the enumeration of microorganisms – Part 1: Colony count at 30 degrees C by the pour plate technique
ASU L 01.00-3 1987-03	Analysis of foodstuffs; determination of coliform bacteria in milk, milk products, butter, cheese and ice cream; method with solid culture medium
ASU L 01.01-2 1986-05	Analysis of foodstuffs; detection of <i>Streptococcus agalactiae</i> in raw milk
VDLUFA VI M 7.8.2 1993	Milk – Microbiological test methods – Methods for the detection and determination of specific germ groups – Determination of enterococci (Modification: <i>Matrix also milk products</i>)
VDLUFA VI M 7.12.2 1993	Milk – Microbiological test methods – Methods for the detection and determination of specific germ groups – Determination of pseudomonads (Modification: <i>Matrix also milk products</i>)
DVG Guideline Section 6-8 2018- 08	Laboratory diagnosis of mastitis – Sampling and microbiological analysis Microbiological analysis / material/ methods

1.2.2 Detection of antibiotic residues using microbiological test systems in milk *

ASU L 01.01-5 2012-01	Analysis of foodstuffs – Detection of inhibitors in bulk milk – Agar diffusion method (brilliant black reduction test) (Modification: <i>Use of the DSM commercial test kit, Delvotest® BR Brilliant DA, automatic and manual evaluation</i>)
ASU L01.00-11 1996-02 Corrigendum 2002-02	Analysis of foodstuffs – Search method for the presence of anti-infective agents in milk – Agar diffusion method with <i>Bacillus stearothermophilus</i> (brilliant black reduction test) (Modification: <i>No identification and quantification of suspect samples using confirmatory tests</i>)

Valid from: 01.06.2021
Date of issue: 01.06.2021

Page 4 of 7

DVG Guideline
Section 9.2
2018-08

Guidelines for the laboratory diagnosis of mastitis – Sampling and
microbiological analysis – Sensitivity testing – Agar diffusion test
(ADT)

1.3 Determination of mastitis pathogens using real-time PCR in milk

Thermo Scientific
PathoProof® Mastitis Complete-
16 Assay
PF1600
2010-06

Determination of mastitis pathogens in cow's milk using real-time
PCR

1.4 Detection of antibiotics and mycotoxins in milk using enzyme immunoassay (ELISA) *

R-Biopharm AG
RIDASCREEN® Chloramphenicol
R1511
2016-10

Enzyme immunoassay for quantitative determination of
chloramphenicol in milk, milk powder and milk products, honey and
royal jelly, meat, fish, shrimp, eggs, urine (also chloramphenicol
glucuronide), plasma/serum and animal feedstuffs
(Modification: *Matrix only milk*)

R-Biopharm AG
Ridascreen®
Aflatoxin M1
R1121
2018-10

Enzyme immunoassay for the quantitative determination of
aflatoxin M1 in milk and milk powder
(Modification: *Matrix only milk*)

R-Biopharm AG
RIDASCREEN® Tetracyclin
R3505
2015-10

Enzyme immunoassay for the quantitative determination of
tetracyclines in milk, milk powder, cheese, butter, milk products
(curd, yoghurt (natural/with fruit), kephir, cream, sour cream),
honey, meat, sausage, fish, shrimps and whole egg
(Modification: *Matrix only milk*)

R-Biopharm AG
RIDASCREEN® Streptomycin
R3104
2016-01

Enzyme immunoassay for the quantitative determination of
streptomycin in milk and milk powder, honey, meat, liver, kidney,
shrimps and apple juice
(Modification: *Matrix only milk*)

Randox
Quinolone ELISA
QL 3454
2018-03

Enzyme immunoassay for the quantitative determination of
quinolones in milk

1.5 Detection of antibiotic residues using colorimetric analysis in milk *

Charm Sciences Inc. Detection of beta-lactam antibiotics in milk
Charm Rosa LF-MRLBL1
OM-516-006
2017-04

Idexx Laboratories Inc. Detection of beta-lactam antibiotics (including cephalexin) in milk
SNAP Beta-Lactam ST Plus
99-0009838
2018

2 Veterinary medicine

Test area: Immunology

Type of test: Ligand assays

Analyte (measurand)	Test material (matrix)	Test technique
Glycoproteins (PAGs)	Milk	ELISA

Test area: Microbiology (including bacteriology, mycology, infectious disease serology, molecular biology)

Type of test: Ligand assays

Analyte (measurand)	Test material (matrix)	Test technique
Antibodies against Mycobacterium avium spp paratuberculosis	Milk	ELISA

Abbreviations used

ASU	Amtliche Methodensammlung von Untersuchungsverfahren (Official Collection of Test Methods) on the basis of Section 64 LFGB (German Food and Feed Act)
BMEL	Federal Ministry of Food and Agriculture
DIN	Deutsches Institut für Normung e.V. (German Institute for Standardization)
DLQ	Deutscher Verband für Leistungs- und Qualitätsprüfungen e.V. (German Association for Performance and Quality Testing)
DVG	Deutsche Veterinärmedizinische Gesellschaft e.V. (German Veterinary Medicine Society)
EN	European standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PAG	Pregnancy-associated glycoproteins
PCR	Polymerase chain reaction
spp.	Species pluralis
VDLUFA	Verband Deutscher Landwirtschaftlicher Untersuchungs- und Forschungsanstalten (Association of German Agricultural Testing and Research Institutions)
HM IFM MET XX	In-house method of IfM GmbH & Co. KG