Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-17740-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **17.05.2024**

Date of issue: 17.05.2024

This annex is a part of the accreditation certificate D-PL-17740-01-00.

Holder of partial accreditation certificate:

Laborunion Prof. Höll & Co. GmbH
Lindenstraße 24, 08645 Bad Elster

with the locations

Laborunion Prof. Höll & Co. GmbH
Elsteraue 4, 08626 Adorf

Laborunion Prof. Höll & Co. GmbH
Am Kuhberg 2, 08645 Bad Elster

Laborunion Prof. Höll & Co. GmbH
Hans-Sachs-Straße 16, 31552 Rodenberg

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

This certificate annex is only valid together with the written accreditation certificate and 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.

Tests in the fields:

physical, physico-chemical, chemical and microbiological analysis of water (drinking water, spa water, spring water, waste water, swimming and bathing pool water, spring, mineral and bottled water)
sampling of waste water, swimming and bathing pool water and water from mineral springs and spas
microbiological and selected chemical analysis according to the German Drinking Water Ordinance, sampling of raw and drinking water;
sampling and microbiological analysis of industrial water according to Section 3 (8) 42nd BImSchV

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Identification of locations:

The identification after the testing and sampling methods indicates the location with confirmed competence:

AD	=	Elsteraue 4, 08626 Adorf
RO	=	Hans-Sachs-Straße 16, 31552 Rodenberg
BE	=	Am Kuhberg 2, 08645 Bad Elster

1 Water (drinking water, spa water, spring water, waste water, swimming and bathing pool, spring, mineral and bottled water)

1.1 Sampling

DIN EN ISO 5667-1 (A 4) 2007-04	Water quality - Sampling - Part 1: Guidance on the design of sampling programmes and sampling techniques	AD, BE, RO
DIN 38402-A 11 2009-02	Sampling of waste water (limitation: *here only sample taken at random*)	AD, BE
DIN ISO 5667-5 (A 14) 2011-02	Water quality - Sampling - Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems	AD, BE, RO
DIN 38402-A 18 1991-05	Sampling of water from mineral springs and spas	AD, BE, RO
DIN EN ISO 5667-3 (A 21) 2019-07	Water quality - Sampling - Part 3: Preservation and handling of samples	AD, BE, RO
DIN 38402-A 30 1998-07	Pretreatment, homogenisation and aliquotation of non-homogeneous water samples	AD, BE
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis	AD, BE, RO
DIN 19643-1 2012-11	Treatment of water of swimming pools and baths - Part 1: General requirements (limitation: *here only sampling according to no. 14.2*)	AD, BE, RO

1.2 Sensory analysis

DEV B1/2 1971	Test for odour and flavour	AD, BE, RO
DIN EN 1622 (B 3) 2006-10	Water quality - Determination of the threshold odour number (TON) and threshold flavour number (TFN)	AD, BE

1.3 Physical and physico-chemical analysis

DIN EN ISO 7887 (C 1) 2012-04	Water quality - Examination and determination of colour	BE, RO
DIN 38404-C 3 2005-07	Determination of absorption in the range of UV radiation, spectral absorption coefficient	BE, RO
DIN 38404-C 4 1976-12	Determination of temperature	AD, BE, RO
DIN EN ISO 10523 (C 5) 2012-04	Water quality - Determination of pH	AD, BE, RO
DIN 38404-C 6 1984-05	Determination of the oxidation reduction (redox) potential	BE, RO
DIN EN 27888 (C 8) 1993-11	Water quality; Determination of electrical conductivity	AD, BE, RO
DEV C 9 1971	Determination of density	BE, RO
DIN 38404-C 10 2012-12	Calculation of the calcite saturation of water	AD, RO
DIN EN ISO 7027-1 (C 21) 2016-11	Water quality - Determination of turbidity - Part 1: Quantitative method	BE, RO

1.4 Anions

DIN 38405-D 4 1985-07	Determination of fluoride (limitation: *here only D 4-1: using an ion-selective electrode*)	BE
DIN EN 26777 (D 10) 1993-04	Water quality; determination of nitrite ion; spectrometric method	BE, RO
DIN EN ISO 6878 (D 11) 2004-09	Water quality - Determination of phosphorus - Ammonium molybdate photometric method	BE, RO
DIN 38405-D 13 2011-04	Determination of cyanides	BE
DIN EN ISO 10304-1 (D 20) 2009-07	Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 1: Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulphate	BE

DIN EN ISO 10304-3 (D 22) 1997-11	Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 3: Determination of chromate, iodide, sulphite, thiocyanate and thiosulphate	BE
DIN 38405-D 24 1987-05	Photometric determination of chromium(VI) using 1,5-diphenylcarbonohydrazide	BE
DIN EN ISO 10304-4 (D 25) 1999-07	Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 4: Determination of chlorate, chloride and chlorite	BE
DIN 38405-D 27 2017-10	Determination of sulphide by gas extraction	BE
DIN EN ISO 15061 (D 34) 2001-12	Water quality - Determination of dissolved bromate - Method by liquid chromatography of ions	BE
DIN EN ISO 18412 (D 40) 2007-02	Water quality - Determination of chromium(VI) - Photometric method for weakly contaminated water	BE
DIN EN ISO 11206 (D 48) 2013-05	Water quality - Determination of dissolved bromate - Method using ion chromatography (IC) and post column reaction (PCR)	AD
HV-LU 13: H_2S-titrim. 2020-03	Titrimetric determination of hydrogen sulphide in spa waters	BE, RO

1.5 Cations

DIN 38406-E 5 1983-10	Determination of ammonia-nitrogen	BE, RO
DIN EN ISO 11885 (E 22) 2009-09	Water quality - Determination of selected elements by inductively coupled plasma atomic emission spectrometry (ICP-OES)	BE
DIN ISO 9964-3 (E 27) 1996-08	Water quality - Determination of sodium and potassium - Part 3: Determination of sodium and potassium by flame emission spectrometry	BE
DIN EN ISO 17294-2 (E 29) 2017-01	Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 2: Determination of selected elements including uranium isotopes	BE

DIN EN ISO 17852 (E 35) 2008-04	Water quality - Determination of mercury - Method using atomic fluorescence spectrometry	BE
HV-LU 01: Cs-AES 2022-01	Determination of caesium by atomic emission spectrometry in water	BE
HV-LU 02: Rb-AES 2022-01	Determination of rubidium by atomic emission spectrometry in water	BE
HV-LU 04: Li-AAS 2022-01	Determination of lithium by atomic absorption spectrometry (AAS)	BE

1.6 Collective determinable substances

DIN EN ISO 6468 (F 1) 1997-02	Water quality - Determination of certain organochlorine insecticides, polychlorinated biphenyls and chlorobenzenes - Gas chromatographic method after liquid-liquid extraction	AD
DIN EN ISO 10301 (F 4) 1997-08	Water quality - Determination of highly volatile halogenated hydrocarbons - Gas-chromatographic methods	AD
DIN EN 12673 (F 15) 1999-05	Water quality - Gas chromatographic determination of some selected chlorophenols in water (Modification: *also determination of alkyl and phenyl phenols*)	AD
DIN EN ISO 17993 (F 18) 2004-03	Water quality - Determination of 15 polycyclic aromatic hydrocarbons (PAHs) in water by HPLC with fluorescence detection after liquid-liquid extraction	AD
DIN 38407-F 35 2010-10	Determination of selected phenoxyalkyl carbonic acids and further acid plant treatment agents - Method using liquid chromatography and mass spectrometric detection (LC-MS/MS)	AD
DIN 38407-F 36 2014-09	Determination of selected active substances of plant protection products and other organic substances in water - Method using high performance liquid chromatography and mass spectrometric detection (HPLC-MS/MS or -HRMS) after direct injection	AD
DIN EN ISO 17943 (F 41) 2016-10	Water quality - Determination of volatile organic compounds in water - Method using headspace solid-phase micro-extraction (HS-SPME) followed by gas chromatography-mass spectrometry (GC-MS) (Modification: *also determination of acetaldehyde after derivatisation*)	AD

DIN 38407-F 43 2014-10	Determination of selected easily volatile organic compounds in water - Method using gas chromatography and mass spectrometry by static headspace technique (HS-GC-MS)	AD
DIN ISO 16308 (F 45) 2017-09	Water quality – Determination of glyphosate and AMPA – Method using high performance liquid chromatography (HPLC) with tandem mass spectrometric detection	AD
HV-LU 15: Phenols-MS 2020-09	Determination of phenols in water by solid phase microextraction and gas chromatography with mass spectrometric detection	AD
HV-LU 17: Aldehydes 2020-02	Determination of aldehydes in water by HPLC with UV detection	AD

1.7 Gaseous components

DIN EN ISO 7393-2 (G 4-2) 2019-03	Water quality - Determination of free chlorine and total chlorine - Part 2: Colorimetric method using N,N-dialkyl - 1,4-phenylenediamine, for routine control purposes	AD, BE, RO
DIN ISO 17289 (G 25) 2014-12	Water quality - Determination of dissolved oxygen - Optical sensor method	BE
HV-LU 19: CO_2-WLD 2019-05	Determination of carbon dioxide in water by thermal conductivity detector	BE
HV-LU 155: CO_2-man. 2022-04	Manometric determination of dissolved carbon dioxide in carbonated bottled mineral water and soft drinks	BE

1.8 Summary indices of effects and substances

DIN EN 1484 (H 3) 2019-04	Water analysis - Guidelines for the determination of total organic carbon (TOC) and dissolved organic carbon (DOC)	BE
DIN EN ISO 8467 (H 5) 1995-05	Water quality - Determination of permanganate index	BE, RO
DIN 38409-H 6 1986-01	Water hardness	AD, BE, RO
DIN 38409-H 7 2005-12	Determination of acid and base-neutralising capacities	BE, RO

DEV H 12 1971	Calculation of total nitrogen	AD, BE, RO
DIN EN ISO 9562 (H 14) 2005-02	Water quality - Determination of adsorbable organically bound halogens (AOX)	BE
DIN EN 903 (H 24) 1994-01	Water quality - Determination of anionic surfactants by measurement of the methylene blue index MBAS	BE
DIN ISO 15705 (H 45) 2003-01	Water quality - Determination of the chemical oxygen demand index (ST-COD) - small-scale sealed tube method	AD
DIN EN ISO 5815-1 (H 50) 2020-11	Water quality - Determination of biochemical oxygen demand after n days (BOD_n) - Part 1: Dilution and seeding method with allylthiourea acid addition	BE
DIN EN ISO 9377-2 (H 53) 2001-07	Water quality - Determination of hydrocarbon oil index - Part 2: Method using solvent extraction and gas chromatography	AD
HV-LU 12: 180-260 2021-09	Residue on evaporation of spa and mineral water at 180 °C and 260 °C (dry residue at 180 °C and 260 °C - gravimetric)	BE, RO

1.9 Individual components

DIN 38413-P 6 2007-02	Determination of acrylamide - Method using high performance liquid chromatography with mass spectrometric detection (HPLC-MS/MS)	AD
DIN EN 14207 (P 9) 2003-09	Water quality - Determination of epichlorohydrin	AD

1.10 Microbiological analysis

DIN EN ISO 6222 (K 5) 1999-07	Water quality - Enumeration of culturable micro-organisms - Colony count by inoculation in a nutrient agar culture medium	AD, RO
DIN EN ISO 9308-2 (K 6-1) 2014-06	Water quality - Enumeration of *Escherichia coli* and coliform bacteria - Part 2: Most probable number method	AD, RO
DIN EN ISO 16266 (K 11) 2008-05	Water quality - Detection and enumeration of Pseudomonas aeruginosa - Membrane filtration method	AD, RO

DIN EN ISO 9308-1 (K 12) 2017-09	Water quality - Enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora	AD, RO
DIN EN ISO 7899-2 (K 15) 2000-11	Water quality - Detection and enumeration of intestinal enterococci - Part 2: Membrane filtration method	AD, RO
DIN EN ISO 11731 (K 23) 2019-03	Water quality - Enumeration of legionella	AD, RO
DIN EN ISO 14189 (K 24) 2016-11	Water quality - Enumeration of Clostridium perfringens - Method using membrane filtration	AD, RO
ISO 11731 2017-05	Water quality - Detection and enumeration of Legionella (limitation: *not applicable to waste water*)	AD, RO
TrinkwV Section 43 (3)	Enumeration of culturable microorganisms - Colony count by inoculation in a nutrient agar culture medium (colony count at 22 °C and 36 °C)	AD, RO
Min/TafelWV, Annex 2, no. 1.1 b last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled water (Mineral and Bottled Water Ordinance) - Microbiological test methods - Detection of Escherichia coli in natural mineral water, spring and bottled water, membrane filtration	AD, RO
Min/TafelWV, Annex 2, no. 1.2 b last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled (Mineral and Bottled Water Ordinance) - Microbiological test methods - Detection of coliforms in natural mineral water, spring and bottled, membrane filtration	AD, RO
Min/TafelWV, Annex 2, no. 2 b last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled water (Mineral and Bottled Water Ordinance) - Microbiological test methods - Testing for faecal streptococci in natural mineral water, spring and bottled water, membrane filtration	AD, RO
Min/TafelWV, Annex 2, no. 3 b last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled water (Mineral and Bottled Water Ordinance) - Microbiological test methods - Testing for Pseudomonas aeruginosa in natural mineral water, spring and bottled water, membrane filtration	AD, RO
Min/TafelWV, Annex 2, no. 4 b last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled water (Mineral and Bottled Water Ordinance) - Microbiological test methods - Testing for sulphite-reducing, spore-forming anaerobes in natural mineral water, spring and bottled water, liquid enrichment	AD, RO

Min/TafelWV, Annex 2, no. 5.2 last amended 20.06.2023	Ordinance on natural mineral water, spring water and bottled water (Mineral and Bottled Water Ordinance) - Microbiological test methods - Determination of the colony count in natural mineral water, spring and bottled water, determination of the colony count, agar culture medium	AD, RO
Ph. Eur. 10.1/2.6.13 2020	Testing of non-sterile products: Detection of specified microorganisms Staphylococcus aureus (Modification: *Here application to drinking and spa water*)	AD
UBA Recommendation 2018-12 updating 2022-12	Systemic analysis of drinking water installations for legionella according to the German Drinking Water Ordinance - Sampling, examination and indication of the result	AD, RO

4 Test methods according to the German Drinking Water Ordinance - TrinkwV -

German Drinking Water Ordinance (TrinkwV) of 20 June 2023 (BGBl. 2023 I No. 159, p. 2)

Sampling

Method	Title	Loc
DIN ISO 5667-5 2011-02	Water quality - Sampling - Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems	AD, BE, RO
DIN EN ISO 19458 2006-12	Water quality - Sampling for microbiological analysis	AD, BE, RO
UBA Recommendation 18 December 2018 (legionella)	Systemic examination of drinking water installations for Legionella according to the German Drinking Water Regulation - Sampling, examination and indication of the result	AD, BE, RO
Recommendation of the Federal Environment Agency 18 December 2018 (staggered stagnation sampling and random sampling)	Assessment of the quality of drinking water with respect to the parameters lead, copper and nickel	AD, BE, RO

ANNEX 1: MICROBIOLOGICAL PARAMETERS

PART I: General requirements for drinking water

Parameter	Method	Loc
Escherichia coli (E. coli)	DIN EN ISO 9308-1 2017-09 DIN EN ISO 9308-2 2014-06	AD, RO
Intestinal enterococci	DIN EN ISO 7899-2 2000-11	AD, RO

PART II: Requirements for drinking water intended for transfer in sealed containers

Parameter	Method	Loc

Escherichia coli (E. coli)	DIN EN ISO 9308-1 2017-09	AD, RO
Intestinal enterococci	DIN EN ISO 7899-2 2000-11	AD, RO
Pseudomonas aeruginosa	DIN EN ISO 16266 2008-05	AD, RO

ANNEX 2: CHEMICAL PARAMETERS

PART I: Chemical parameters whose concentration does not usually increase in the distribution network, including the drinking water installation

Parameter	Method	Loc
Acrylamide	DIN 38413-6 2007-02	AD
Benzene	DIN 38407-43 2014-10	AD
Boron	DIN EN ISO 11885 2009-09	BE
Bromate	DIN EN ISO 11206 2013-05	AD
Chromium	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Cyanide	DIN 38405-13 2011-04	BE
1,2-dichloroethane	DIN 38407-43 2014-10	AD
Fluoride	DIN 38402-4 1985-07 DIN EN ISO 10304-1 2009-07	BE
Microcystin-LR	not used	
Nitrate	DIN EN ISO 10304-1 2009-07	BE
Pesticides	DIN EN ISO 6468 1997-02 DIN 38407-35 2010-10 DIN 38406-36 2014-09 DIN ISO 16308 2017-09	AD
Total pesticides	DIN EN ISO 6468 1997-02 DIN 38407-35 2010-10 DIN 38406-36 2014-09 DIN ISO 16308 2017-09	AD
Total PFAS-20	not used	
Total PFAS-4	not used	
Mercury	DIN EN ISO 17852 2008-04	BE
Selenium	DIN EN ISO 17294-2 2017-01	BE
Tetrachloroethene and trichloroethylene	DIN 38407-43 2014-10	AD
Uranium	DIN EN ISO 17294-2 2017-01	BE

PART II: Chemical parameters whose concentration may increase in the distribution network, including the drinking water installation

Parameter	Method	Loc
Antimony	DIN EN ISO 17294-2 2017-01	BE

Parameter	Method	Loc
Arsenic	DIN EN ISO 17294-2 2017-01	BE
Benzo[a]pyrene	DIN EN ISO 17993 2004-03	AD
Bisphenol A	not used	
Lead	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Cadmium	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Chlorate	DIN EN ISO 10304-4 1999-07	BE
Chlorite	DIN EN ISO 10304-4 1999-07	BE
Epichlorohydrin	DIN EN 14207 2003-09	AD
Haloacetic acids (HAA-5)	not used	
Copper	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Nickel	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Nitrite	DIN EN 26777 1993-04	BE, RO
Polycyclic aromatic hydrocarbons	DIN EN ISO 17993 2004-03	AD
Trihalomethanes	DIN 38407-43 2014-10	AD
Vinyl chloride	DIN 38407-43 2014-10	AD

ANNEX 3: INDICATOR PARAMETERS

Part I: General indicator parameters

Parameter	Method	Loc
Aluminium	DIN EN ISO 11885 2009-09	BE
Ammonium	DIN 38406 1983-10	BE, RO
Calcite dissolving capacity	DIN 38404-10 2012-12	AD, RO
Chloride	DIN EN ISO 10304-1 2009-07	BE
Clostridium perfringens, including spores	DIN EN ISO 14189 2016-11	AD, RO
Coliform bacteria	DIN EN ISO 9308-1 2017-09 DIN EN ISO 9308-2 2014-06	AD, RO
Iron	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Electrical conductivity	DIN EN 27888 1993-11	AD, BE, RO
Colouring	DIN EN ISO 7887 2012-04	BE, RO
Odour	DIN EN 1622 2006-10 (Annex C)	AD, BE, RO
Flavour	DIN EN 1622 2006-10 (Annex C)	AD, BE, RO

Parameter	Method	Loc
Colony count at 22 °C	DIN EN ISO 6222 1999-07 TrinkwV Section 43 (3)	AD, RO
Colony count at 36 °C	DIN EN ISO 6222 1999-07 TrinkwV Section 43 (3)	AD, RO
Manganese	DIN EN ISO 11885 2009-09 DIN EN ISO 17294-2 2017-01	BE
Sodium	DIN EN ISO 11885 2009-09 DIN ISO 9964-3 1996-08	BE
Organically bound carbon (TOC)	DIN EN 1484 2019-04	BE
Oxidisability	DIN EN ISO 8467 1995-05	BE, RO
Sulphate	DIN EN ISO 10304-1 2009-07	BE
Turbidity	DIN EN ISO 7027-1 2016-11	BE, RO
Hydrogen ion concentration	DIN EN ISO 10523 2012-04	AD, BE, RO

Part II: Specific indicator parameter for drinking water installations

Parameter	Method	Loc
Legionella spec.	DIN EN ISO 11731 2019-03 UBA recommendation 18 December 2018 updating December 2022 (Federal Health Gazette 2023 p. 224)	AD, RO

Part III: Specific indicator parameter for the occurrence of certain microbial hazards

not used

ANNEX 4: REQUIREMENTS FOR DRINKING WATER WITH REGARD TO RADIOACTIVE SUBSTANCES

Parameter	Method	Loc
Radon-222	ISO 13164-4 2015-06	BE
Tritium	not used	
Indicative dose		
1. Screening method with test value for $C_{alpha\text{-}total} \leq 0.1$ becquerel per litre	not used	
2. Screening method with test value for $C_{alpha\text{-}total} \leq 0.05$ becquerel per litre	not used	
Total alpha activity concentration	not used	
Total alpha and Total beta activity concentration	not used	
3. Single nuclide determination		
Radionuclides of natural origin		
Lead-210	not used	
Polonium-210	not used	
Radium-226	not used	
	not used	
Radium-228	not used	
Uranium-234	not used	
Uranium-238	not used	

Parameter	Method	Loc
Radionuclides of artificial origin		
Americium-241	not used	
Caesium-134	not used	
Caesium-137	not used	
Cobalt-60	not used	
Iodine-131	not used	
Carbon-14	not used	
Plutonium-239/plutonium-240	not used	
Strontium-90	not used	

PARAMETERS NOT INCLUDED IN ANNEXES 1 TO 4 OF THE GERMAN DRINKING WATER ORDINANCE

Additional periodic testing

Parameter	Method	Loc
Calcium	DIN EN ISO 11885 2009-09	BE
Potassium	DIN EN ISO 11885 2009-09 DIN ISO 19964-3 1996-08	BE
Magnesium	DIN EN ISO 11885 2009-09	BE
Acid and base capacity	DIN 38409-7 2005-12	BE, RO
Phosphate	DIN EN ISO 6878 2004-09	BE, RO

The accreditation does not replace the recognition or approval procedure of the competent authority pursuant to Section 40 (2) TrinkwV.

5 Sampling and microbiological analysis of industrial water according to Section 3 (8) 42nd BImSchV

Sampling

Method	Title	Loc
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis	AD, RO
	Recommendation of the Federal Environmental Agency for the sampling and detection of Legionella in evaporative cooling plants, cooling towers and wet separators dated 06.03.2020, Sections C and D	

Microbiological analysis

Method	Title	Loc
Legionella	DIN EN ISO 11731 (K 23) 2019-03	AD, RO
	Recommendation of the Federal Environmental Agency for the sampling and detection of Legionella in evaporative cooling plants, cooling towers and wet separators dated 06.03.2020, Sections E and F taking into account Annexes 1 and 2	

Method	Title	Loc
Colony count at 22°C and 36 °C	DIN EN ISO 6222 (K 5) 1999-07	AD, RO

Abbreviations used:

DEV	Deutsches Einheitsverfahren (German standard method)
DIN	Deutsches Institut für Normung e. V. (German Institute for Standardization)
EN	European standard
HV-LU xxx:	In-house method of Laborunion Prof. Höll & Co. GmbH
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
Ph. Eur.	European Pharmacopoeia
UBA	Umweltbundesamt (Federal Environment Agency)