

Deutsche Akkreditierungsstelle

Annex to the accreditation certificate D-PL-18482-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from:

25.11.2024

Date of issue:

25.11.2024

Holder of accreditation certificate:

Coffein Compagnie GmbH & Co. KG Segelsbrück 7, 28309 Bremen

with the location

Coffein Compagnie GmbH & Co. KG Segelsbrück 7, 28309 Bremen

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:

Sampling of coffee and coffee products

Physical, physico-chemical and chemical analysis of coffee, coffee products and caffeine

Within the given testing field marked with **, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the modification, development and refinement of testing methods.

The test methods listed are given by way of example.

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.

1 Analysis of coffee, coffee products and caffeine

1.1 Sampling and sample preparation of coffee and coffee products

ISO 4072

Green coffee in bags - Sampling

1982-12

DIN 10792 2013-06 Analysis of coffee and coffee products - Preparation of coffee

beverage for analytical purposes

ASU L 00.00-111/2

2012-07

Analysis of foodstuffs – Sample preparation methods for the provision of the official sample, counter sample and arbitration sample for determination of the mycotoxin content in foodstuffs –

Part 2: Method for comminution and homogenisation without the

addition of water

(Modification: Green coffee matrix)

1.2 Gravimetric determination of parameters and ingredients in coffee, coffee products and caffeine

ISO 6669

Green and roasted coffee - Determination of free-flow bulk density

1995-09 of whole beans (routine method)

DIN ISO 6673

Green coffee - Determination of loss in mass at 105°C

2007-03

Valid from:

25.11.2024

Date of issue:

25.11.2024

Page 2 of 6



DIN 10764-4 2007-03 Analysis of coffee and coffee products – Determination of loss in mass of soluble coffee – Part 4: Method for soluble coffee and soluble coffee products by heating under atmospheric pressure

(routine method)

DIN 10775 2016-07 Analysis of coffee and coffee products – Determination of water-

soluble extract - Method for roasted coffee

DIN 10775-2 1985-11

Analysis of coffee and coffee products - Determination of water-

soluble extract - Method for green coffee

DIN 10781 2000-11

DIN 10802

Roasted ground coffee – Determination of loss in mass at 103°C (routine method for the determination of moisture content)

Analysis of tea – Determination of total ash

2016-04 (Modification: *Coffee matrix*)

USP41 Caffeine NF36 Vol.1 2018-05 Determination of loss in mass of caffeine (loss on drying) (Modification: *Higher drying temperature, shorter drying time*)

1.3 Determination of food ingredients and contaminants in coffee, coffee products and caffeine by liquid chromatography with conventional detectors (UV/VIS, DAD and fluorescence detector) **

DIN 10767

Analysis of coffee and coffee products -

2015-08

Determination of chlorogenic acids content; HPLC method

DIN ISO 20481

2011-01

Coffee and coffee products – Determination of the caffeine content using high performance liquid chromatography (HPLC) – reference method (Modification: *Ultrasound-assisted extraction, omission of*

MgO, 2-point calibration)

DIN EN 14132 2009-09 Foodstuffs – Determination of ochratoxin A in barley and roasted coffee – HPLC method with immunoaffinity column clean-up (Modification: Also for green coffee and roasted coffee)

FCC

Determination of caffeine content using HPLC-UV

Caffeine Monograph

2018-01

Determination of caffeine content using HPLC-UV

USP41 Caffeine NF36 Vol.1 2018-05

Valid from:

25.11.2024

Date of issue:

25.11.2024

Page 3 of 6



1.4 Determination of contaminants in coffee, coffee products and caffeine by gas chromatography with conventional detectors (FID)

DIN 10783

Analysis of coffee and coffee products -

2011-01

Determination of dichlormethane in decaffeinated green coffee

using headspace gaschromatography

(Modifications: Additional analyte ethyl acetate; matrix caffeine

and additional analyte ethyl acetate)

1.5 Determination of contaminants in coffee, coffee products and caffeine by gas chromatography with mass selective detectors (MS detector) **

DIN EN ISO 18862

Coffee and coffee products - Determination of acrylamide -

2019-12

Methods using HPLC-MS/MS and GC-MS after derivatisation

(Restriction: Here only for GC-MS)

DIN EN 16620

2015-06

Food analysis – Determination of furan, 2-methylfuran and 3-methylfuran in coffee and coffee products by headspace gas

chromatography and mass spectroscopy (Modification: Additional

analytes 2-methylfuran and 3-methylfuran)

CL-02-015-00

Determination of benzene and toluene in coffee and coffee

2024-01

products

1.6 Determination of water content and pH by electrode measurement in coffee, coffee products and caffeine

DIN 10772-1

Analysis of coffee and coffee products -

2009-06

Karl Fischer method for the determination of water content – Part

1: Reference method for roasted coffee (Modification: *Matrix also green coffee*)

DIN 10772-2

Analysis of coffee and coffee products -

2005-05

Karl Fischer method for the determination of water content – Part

2: Reference method for soluble coffee

DIN 10776-1

Analysis of coffee and coffee products – Determination of pH and

2016-07

acid content - Part 1: Method for roasted coffee

Valid from:

25.11.2024

Date of issue:

25.11.2024

Page 4 of 6



DIN 10776-2

Analysis of coffee and coffee products –

2016-07

Determination of pH and acid content - Part 2: Method for soluble

coffee

FCC

Karl Fischer method for determination of water in caffeine

Caffeine Monograph, Appendix IIB 2018-12

1.7 Other physical, physico-chemical and chemical analysis of coffee, coffee products and caffeine

CL-02-023-00

Capacitive determination of the moisture content of green coffee

2022-02

(Sinar TM moisture analysers)

CL-02-043-00

Microwave resonance spectroscopic moisture analysis in green

coffee (TEWS ™ moisture analysers)

CL-02-056-00

NIR spectroscopic determination of moisture and caffeine in green

2021-09

2024-07

coffee

CL-02-112-00

Determination of the average flow velocity of green coffee beans

2023-09

using a mass flow slide valve

FCC

Melting point determination of caffeine using a thermal melting

Caffeine Monograph,

point determination apparatus

Appendix IIB

2018-12

USP41

Melting point determination of caffeine using a thermal melting

NF36 Chapter 741

2018-05

point determination apparatus

Valid from:

25.11.2024

Date of issue:

25.11.2024

Page 5 of 6



Abbreviations used:

ASU Amtliche Sammlung von Untersuchungsverfahren (Official Collection of

Methods of Analysis) on the basis of Section 64 LFGB (German Food and

Feed Act)

CL-02-xxx-00 In-house methods of the Coffein Compagnie GmbH & Co. KG chemical

laboratory

DIN Deutsches Institut für Normung e.V. (German Institute for

Standardization)

EN European standard FCC Food Chemical Codex

IEC International Electrotechnical Commission
ISO International Organization for Standardization

LFGB Lebensmittel- und Futtermittel-Gesetzbuch (German Food and Feed Act)

USP NF United States Pharmacopeia National Formulary

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