

## Deutsche Akkreditierungsstelle

### Annex to the Partial Accreditation Certificate D-PL-14285-01-01 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 18.12.2023

**Date of issue:** 18.12.2023

This annex is a part of the accreditation certificate D-PL-14285-01-00.

Holder of partial accreditation certificate:

**ADM WILD Europe GmbH & Co. KG**  
**Rudolf-Wild-Straße 107-115, 69214 Eppelheim**

with the location

**ADM WILD Europe GmbH & Co. KG**  
**EMEA Corporate Analytics - Heidelberg**  
**Rudolf-Wild-Straße 107-115, 69214 Eppelheim**

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.

Tests in the fields:

**Physical, physico-chemical and chemical analysis of foodstuffs**

*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>.*

Abbreviations used: see last page

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

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Within the given testing field marked with \*/\*\*, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:

- \* the free choice of standard or equivalent testing methods.
- \*\* the modification, development and refinement of testing methods.

The test methods listed are given by way of example.

Within the scope of accreditation marked with \*\*\*, 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 listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

**Physical, physico-chemical and chemical analysis of foodstuffs**

**1 Volumetric, titrimetric and electrochemical test methods \*\*\***

|                               |   |
|-------------------------------|---|
| DIN EN 27888 (C 8)<br>1993-11 | Water quality; Determination of electrical conductivity<br>(Modification: <i>Here in foodstuffs</i> ) |
| IFU 1A<br>2005                | Determination of density  |
| IFU 3<br>2017                 | Determination of titratable acids   |
| IFU 8<br>2017                 | Determination of soluble dry matter (refractometric)  |
| IFU 11<br>2015                | Determination of pH   |
| IFU 7A<br>2018                | Determination of total sulphurous acid (SO <sub>2</sub> )   |

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**2 Determination of ingredients and additives by liquid chromatography with conventional detectors (HPLC-DAD, HPLC-FLD, HPLC-UV-VIS) \*\***

|                          |   |
|--------------------------|---|
| DIN EN 14122<br>2014-08  | Foodstuffs – Determination of vitamin B1 by high performance liquid chromatography<br>(Modification: <i>Here without enzymatic treatment</i> )  |
| ASU L 43.00-2<br>2018-06 | Analysis of foodstuffs – Determination of steviol glycosides in sweets, chocolate, caffeinated fizzy drinks and foods for special diets; HPLC method<br>(Modification: <i>Extraction media water or DMF/acetic acid</i> ) |
| IFU 17a<br>2005          | Determination of ascorbic acid<br>(Modification: <i>Here sample preparation with meta-phosphoric acid for stabilisation</i> )   |
| IFU 58<br>2005           | Determination of hesperidin and naringin (HPLC)   |
| IFU 69<br>2005           | Determination of hydroxymethylfurfural  |
| IFU 71<br>2015           | Anthocyanin fingerprint   |
| HPLC01<br>2017-04        | Determination of sweeteners, preservatives and caffeine   |
| HPLC06<br>2011-08        | Determination of vitamin E in vitaminised products  |
| HPLC07<br>2021-08        | Determination of $\beta$ -carotene and $\beta$ -apo-8-carotenal in vitaminised samples  |
| HPLC08<br>2015-03        | Determination of limonene   |
| HPLC15<br>2017-01        | Determination of quinine  |
| HPLC36<br>2016-11        | Determination of phlorin / phloroglucinol   |
| HPLC48<br>2016-11        | Determination of fumaric acid   |

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|                   |  |
|-------------------|--|
| HPLC49<br>2020-01 | Determination of nicotinamide (vitamin B3), pyridoxol (vitamin B6) and riboflavin (vitamin B2) |
| HPLC55<br>2018-10 | Determination of taurine   |

**3 Determination of ingredients and additives by ion chromatography \*\***

|                 |   |
|-----------------|---|
| IC03<br>2010-01 | Determination of sugar alcohols (chiro-inositol, xylitol, sorbitol, mannitol)                                   |
| IC04<br>2017-03 | Determination of sugar (glucose, fructose, lactose, sucrose, maltose)   |
| IC09<br>2018-06 | Determination of sugar alcohols (pinitol, myo-inositol, scyllo-inositol)  |
| IC10<br>2011-02 | Determination of sucralose  |
| IC14<br>2018-01 | Determination of sodium cyclamate   |
| IC15<br>2018-04 | Determination of chloride and glucuronic acid   |
| IC17<br>2019-02 | Determination of nitrate  |
| IC18<br>2019-02 | Determination of organic and inorganic ions (galacturonic acid, tartaric acid, citric acid, chloride, sulphate) |

**4 Photometric determinations of ingredients and additives \*\***

|                        |   |
|------------------------|---|
| ISO 14502-1<br>2006-04 | Determination of substances characteristic of green and black tea – Part 1: Content of total polyphenols in tea – Colorimetric method using Folin-Ciocalteu reagent<br>(Modification: <i>Here extraction with water</i> ) |
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**6 Determination of vitamins by liquid chromatography with mass-selective-detection (LC-MS) \*\***

|                   |  |
|-------------------|--|
| HPLC35<br>2016-03 | Determination of folic acid (vitamin B9) in vitaminised products       |
| HPLC38<br>2016-03 | Determination of biotin in vitaminised products                        |
| HPLC42<br>2016-09 | Determination of pantothenic acid (vitamin B5) in vitaminised products |
| HPLC47<br>2019-03 | Determination of cyanocobalamin (vitamin B12) in vitaminised products  |

**7 Determination of elements by ICP-OES \*\*\***

|                            |   |
|----------------------------|---|
| ASU L 00.00-144<br>2019-07 | Analysis of foodstuffs – Determination of calcium, copper, iron, magnesium, manganese, phosphorus, potassium, sodium, sulphur and zinc in foodstuffs with ICP-OES<br>(Modification: Also aluminium and tin) |
|----------------------------|---|

**8 Determination of ingredients by gas chromatography with conventional detector (FID) \*\***

|                 |                           |
|-----------------|---------------------------|
| GC01<br>2014-02 | Determination of ethanol  |
| GC09<br>2015-01 | Determination of methanol |

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**Abbreviations used:**

|          |   |
|----------|---|
| Analy/xx | In-house method of ADM WILD Europe GmbH & Co. KG  |
| ASU      | Amtliche Sammlung von Untersuchungsverfahren (Official Collection of Test Methods) on the basis of § 64 LFGB (German Food and Feed Act) |
| DIN      | Deutsches Institut für Normung e.V. (German Institute for Standardisation)  |
| EN       | European Standard   |
| GCxx     | ADM WILD Europe GmbH & Co. KG In-house method of gas chromatography   |
| HPLCxx   | ADM WILD Europe GmbH & Co. KG In-house method of high performance liquid chromatography   |
| ICxx     | ADM WILD Europe GmbH & Co. KG In-house method of ion chromatography   |
| IEC      | International Electrotechnical Commission   |
| IFU      | International Fruit and Vegetable Juice Association   |
| ISO      | International Organization for Standardization  |

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