

ICS MV 441-01 L02 V7 Public list of the current test procedures in the flexible scope of accreditation

The methods in this document belong to the flexible scope of the DAkkS accreditation certificate D-PL-20965-01 (Eurofins Food Integrity Control Services GmbH). The flexibilization of the scope of accreditation was carried out upon application and with proven competence in this area. All test methods used by the laboratory with reference to an accreditation are verified or validated.

Type of test Test method (detector)	Analyte/ measurand	Matrix / test item	[Flex]	Short title: Standard/normative or in-house method	Issue date: Standard/normative or in-house method	Title: Standard/normative or in-house method	Modification and/or restriction
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	DIN 10758	1997-05	Analysis of honey - Determination of the content of saccharides fructose, glucose, sucrose, turanose and maltose - HPLC method	ELSD detector, sample weigh-in, flow rate, internal standard
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey, plant-based foodstuffs	C	ICS SOP 510-08	2026-04	Determination of the hydroxymethylfurfural (HMF) content in honey and plant-based foodstuffs by HPLC-UV	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 520-04	2021-03	Determination of the beta- and gamma-amylase activity in honey by HPLC-UV (foreign amylases)	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 520-05	2022-10	Analysis of honey - Determination of the beta-fructofuranosidase activity by LC-ELSD	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 520-09	2022-10	Analysis of honey - Determination of oligosaccharides foreign to honey by LC-ELSD	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 520-14	2024-05	Analysis of honey - Determination of mannose and psicose by LC-ELSD	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	royal jelly	C	ICS SOP 510-15	2021-04	Determination of 10-HDA in royal jelly by HPLC-UV	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 510-16	2021-03	Determination of MGO and DHA in honey by HPLC-UV	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	Honey	C	ICS SOP 510-18	2025-07	Determination of methyl anthranilate in honey by HPLC-FLD	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	honey and syrup/thick juice	C	ICS SOP 510-19	2025-07	Analysis of honey and syrup/thick juice - Determination of the sugar spectrum by HPLC-RID	
Chromatography Liquid chromatography with conventional detectors (UVD, ELSD, FLD, RID)	Ingredients	plant-based foodstuffs	C	ICS SOP 510-20	2025-07	Analysis of foods containing inulin – Determination of inulin and the saccharides fructose, glucose, and sucrose by HPLC-RID	

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Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 510-12	2018-08	Determination of methyl anthranilate in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-06	2018-08	Determination of SM-R in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-12	2021-04	Determination of E150d in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-17	2025-10	Analysis of honey by LC-HRMS to detect fraudulent addition of sugar syrups	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-19	2019-09	Determination of SM-B in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Agave syrup	C	ICS SOP 520-20	2021-04	Analysis of agave syrup by LC-HRMS to detect fraudulent addition of sugar syrups	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-21	2023-03	Determination of E150a in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-22	2023-03	Determination of HMF dehydrator in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-23	2023-03	Determination of diastase increaser in honey by LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-26	2024-01	Determination of the geographical and botanical origin of honey using LC-HRMS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-01	2021-04	Analysis of honey - Determination of amphenicols by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR-MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-02	2021-04	Analysis of honey - Determination of nitroimidazoles by LC-MS/MS	

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Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-03	2021-04	Analysis of honey - Determination of sulfonamides and trimethoprim by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-04	2021-04	Analysis of honey - Determination of tetracyclines by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-05	2021-04	Analysis of honey - Determination of macrolides by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-06	2021-04	Analysis of honey - Determination of streptomycin and dihydrostreptomycin by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-07	2021-04	Analysis of honey - Determination of nitrofurans metabolites by LC- MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-08	2021-04	Analysis of honey - Determination of amitraz by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-09	2021-04	Analysis of honey - Determination of fluoroquinolones by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 530-11	2021-04	Analysis of honey - Determination of dapsone by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	bee products	C	ICS SOP 530-14	2024-04	Analysis of bee products - Determination of pyrrolizidine alkaloids by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	bee products	C	ICS SOP 530-15	2024-03	Analysis of bee products - Determination of non-authorized substances by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	bee products	C	ICS SOP 530-16	2021-04	Analysis of bee products - Determination of prohibited substances by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	bee products	C	ICS SOP 530-17	2021-04	Analysis of bee products - Determination of streptomycin and dihydrostreptomycin by LC-MS/MS	

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Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	plant-based foodstuffs	C	ICS SOP 520-28	2025-11	Determination of E150d in vinegar by LC-MS/MS	
Chromatography Liquid chromatography with mass selective detectors (MS/MS, HR- MS)	Ingredients, additives, pesticide residues, residues, contaminants	Honey	C	ICS SOP 520-33	2025-09	Determination of characteristic proteins and foreign enzymes in honey by proteomic analysis using LCMS/MS	
Chromatography Ion chromatography with conventional detectors (CD, EC)	Ingredients	Honey	C	ICS SOP 530-19	2024-04	Analysis of honey - Determination of oxalic acid by IC-CD	
Chromatography Ion chromatography with conventional detectors (CD, EC)	Ingredients	food stuff	C	ICS SOP 510-21	2025-11	Analysis of food – Determination of the sugar spectrum by ISEC	
Spectrometry Elemental analysis using isotope- ratio mass spectrometry (EA-IRMS)	Ingredients	Honey	C	AOAC 998.12	1999-03	C-4 Plant Sugars in Honey Internal Standard Stable Carbon Isotope Ratio Method (Protein, Honey)	
Spectrometry Elemental analysis using isotope- ratio mass spectrometry (EA-IRMS)	Ingredients	Honey	C	ICS SOP 520-13	2025-09	Determination of honey adulteration by ¹³ C/ ¹² C EA/LC-IRMS (Detection of C4/C3 sugars)	
Chromatography Ion chromatography with mass- selective detectors (MS/MS)	Pesticide residues, contaminants	bee products	C	ICS SOP 530-12	2021-04	Analysis of bee products - Determination of glyphosate, AMPA, glufosinate and N-acetyl metabolites by IC-MS/MS	
Chromatography Ion chromatography with mass- selective detectors (MS/MS)	Pesticide residues, contaminants	bee products	C	ICS SOP 530-13	2021-04	Analysis of bee products - Determination of chlorate and perchlorate by IC-MS/MS	
Chromatography Ion chromatography with mass- selective detectors (MS/MS)	Pesticide residues, contaminants	bee products	C	ICS SOP 530-18	2021-04	Analysis of bee products - Determination of glyphosate, AMPA, glufosinate, N-Acetyl metabolites, chlorate and perchlorate by IC- MS/MS	
Photometry	Ingredients	Honey	C	ICS SOP 510-01	2025-09	Determination of the diastase activity in honey according to Phadebas (enzymatically)	
Photometry	Ingredients	Honey	C	ICS SOP 510-04	2024-07	Determination of the diastase activity and the heat-stable diastase activity in honey by Autoanalyzer (enzymatically)	
Photometry	Ingredients	Honey	C	ICS SOP 510-05	2018-03	Determination of the color of honey with the HANNA photometer	

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Photometry	Ingredients	Honey	C	ICS SOP 510-07	2024-05	Determination of the glycerol content of honey (enzymatically)	
Photometry	Ingredients	Honey	C	ICS SOP 510-09	2018-08	Determination of the proline content of honey (photometrically)	
Photometry	Ingredients	Honey	C	ICS SOP 510-10	2019-10	Determination of the invertase activity in honey according to Siegenthaler (enzymatically)	
Photometry	Ingredients	Honey	C	ICS SOP 520-01	2025-10	Determination of the foreign amylase in honey by enzymatic assay (Foreign Amylase Profiling – FamyP)	
Chromatography Gas chromatography with conventional detectors (FID)	Residues	Honey	C	ICS SOP 530-20	2025-11	Determination of bee repellents in honey using GCFID	
Chromatography Gas chromatography with mass selective detectors (MS)	Pesticide residues, residues	Honey	C	ICS SOP 530-22	2025-11	Determination of bee repellents and pesticides in honey using GC-MS	
Gravimetry	Water-insoluble substances	Honey	A	DIN 10743	2013-05	Analysis of honey - Determination of water-insoluble substances (gravimetrically)	
Refractometry	Water content	Honey	A	DIN 10752-2	2018-09	Analysis of honey – Determination of water content – Part 2: Digital refractometric method	Brix measurement, digital refractometer with automatic temperature compensation
Titrimetry	Conductivity, pH value, free acids	Honey	none	ICS SOP 510-06	2021-04	Determination of the conductivity, pH value and free acid in honey (potentiometrically, conductometrically, titrimetrically)	
Simple descriptive tests	Appearance, consistency, smell, taste	Honey	none	ICS SOP 520-02	2024-01	Sensory test methods - Simple descriptive testing of honey (appearance, smell, taste, consistency)	
Optical microscopy	Ingredients, impurities	Honey	C	DIN 10760	2002-05	Analysis of honey - Determination of the relative pollen content	Sample weighing
Optical microscopy	Ingredients, impurities	Honey	C	ICS SOP 520-08	2024-01	Analysis of honey - Determination of the yeast content by microscopy	

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Optical microscopy	Ingredients, impurities	Honey	C	ICS SOP 520-10	2024-01	Analysis of honey - Determination of starch content by microscopy	
Optical microscopy	Ingredients, impurities	plant-based foodstuffs	C	ICS SOP 520-24	2025-06	Determination of the macroscopic and microscopic characteristics as well as foreign matter of plant-based foods	