

Analytical services for honey analysis

status: July 2026

1. chemical-physical parameters

code	description	technology	LOQ
70204	ash ^{a)}	gravimetry	0,01 mg/Kg
15100	citric acid ^{a)}	enzymatic	20 mg/Kg
10200	colour ^{a)}	hanna	1mm
10500	conductivity/pH-value ^{a)}	electrode	---
10100	diastase (activity) ^{a)}	enzymatic	3 U/Kg
13600	ethanol ^{a)}	enzymatic	30 mg/Kg
11000	F/G ratio ^{a)}	enzymatic, calculated	---
36300	formic acid ^{a)}	enzymatic	20 mg/Kg
11500	free acids ^{a)}	titration	1 mmol/Kg
10600	glycerine ^{a)}	enzymatic	30 mg/Kg
10000	HMF ^{a)}	LC	1 mg/Kg
13111	lumichrome (cornflower honey) ^{a)}	LC-MS/MS	0,5 mg/kg
13100	methylanthranilate (orange blossom honey) ^{a)}	LC	0,1 mg/Kg
16002	Methylglyoxal (MGO) ^{a)} + Dihydroxyacetone ^{a)} (DHA) (manuka honey)	NMR	30 mg/Kg
10400	moisture ^{a)}	refractometry	12%
36100	oxalic acid ^{a)}	enzymatic	30 mg/Kg
13000	proline ^{a)}	photometric	10 mg/kg
10300	saccharase (activity) ^{a)}	enzymatic	5 U/Kg
11800	starch ^{a)}	microscopy	1%
11001	sugar spectrum (5 substances) ^{a)} fructose, glucose, sucrose, maltose, melezitose	LC	1%
11300	thixotrophy (heather honey) ^{a)}	thixotrophy (Louveaux)	---
11400	water-insoluble content	gravimetry	0,04 g/100g
11700	yeast ^{a)}	microscopy	---
packages		description	
145	beekeeper special (code: 10400, 10000, 10500)	moisture, HMF, conductivity/pH-value	
105	trade analysis (small) acc. honey directive (code: 10400, 10100, 10000)	moisture, diastase (activity), HMF	
234	trade analysis acc. honey directive (code: 10400, 10100, 10000, 11500, 10500)	moisture, diastase (activity), HMF, free acids, conductivity/pH-value	
106	trade analysis 2 (code: 10400, 10100, 10000, 10300)	moisture, diastase (activity), HMF, saccharase (activity)	
112	trade analysis 3 (code: 10400, 10100, 10000, 10300, 11000)	moisture, diastase (activity), HMF, saccharase (activity), F/G-ratio	
135	trade analysis 4 (code: 10400, 10300, 10000, 200)	moisture, saccharase (activity), HMF, pollen analysis, conductivity/pH-value, sensoric	
136	trade analysis 5 (code: 10400, 10100, 10000, 10200, 10500)	moisture, diastase (activity), HMF, colour, conductivity/pH-value	
155	trade analysis 7 (code: 10400, 10300, 10000)	moisture, saccharase (activity), HMF	
156	trade analysis 8 (code: 10400, 10100, 10000, 11000)	moisture, diastase (activity), HMF, F/G-ratio	
190	trade analysis 11 (code: 10400, 10300, 10000, 10500)	moisture, saccharase (activity), HMF, sensoric, conductivity/pH-value	
239	trade analysis 12 (code: 10100, 10300, 10000)	diastase (activity), saccharase (activity), HMF	

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134	moisture, saccharase (activity) (code: 10400, 10300)	moisture, saccharase (activity)
200	type of honey specification1 ^{a)}	pollen analysis, conductivity/pH-value, sensoric
235	type of honey specification1 + moisture ^{a)} (code: 200, 10400)	pollen analysis, conductivity/pH-value, sensoric, moisture
236	type of honey specification1 + moisture + saccharase (activity) ^{a)} (code: 200, 10400, 10300)	pollen analysis, conductivity/pH-value, sensoric, moisture, saccharase (activity)
201	type of honey specification 2 ^{a)}	pollen analysis incl. geographical origin, conductivity/pH-value, sensoric
202	type of honey specification 3 ^{a)}	pollen analysis incl. geographical origin, conductivity/pH-value, sensoric, yeast, starch
203	type of honey specification 4 ^{a)} fir honey; pine honey	conductivity/pH-value, colour, sensoric, honeydew elements
204	type of honey specification 5 ^{a)} canola honey; acacia honey	pollenanalysis, conductivity/pH-value, colour, sensoric, F/G-ratio
205	type of honey specification 6 ^{a)} cornflower honey	pollenanalysis, conductivity/pH-value, sensoric, lumichrome
206	type of honey specification 7 ^{a)} orange blossom honey	pollenanalysis, conductivity/pH-value, sensoric, methylantranilate
207	type of honey specification 8 ^{a)} calluna honey	pollenanalysis, conductivity/pH-value, sensoric, thixotrophy
208	type of honey specification 9 ^{a)}	pollenanalysis, conductivity/pH-value, sensoric, F/G-ratio, moisture
209	type of honey specification 4 + geo origin ^{a)} fir honey; pine honey incl. geogr. origin	conductivity/pH-value, colour, sensoric, honeydew elements incl. geographical origin
210	type of honey specification 11 ^{a)} forest honey	conductivity/pH-value, sensoric, colour
211	type of honey specification 5 + geo.origin ^{a)} canola honey; acacia honey incl. geogr. origin	pollenanalysis, conductivity/pH-value, colour, sensoric, F/G-ratio incl. geographical origin

2. antibiotics/ pharmacological active substances

code	description	technology	LOQ
25000	Aminoglycosides ^{a)} Streptomycin, Dihydrostreptomycin	LC-MS/MS	0,005 mg/Kg
26000	Amphenicoles (3 substances) ^{a)} Chloramphenicol (CAP), Florfenicol, Thiamphenicol	LC-MS/MS	0,1 µg/kg (CAP) 0,5 µg/kg
27000	Chinolones (14 substances) ^{a)} Ciprofloxacin, Danofloxacin, Difloxacin, Enoxacin, Enrofloxacin, Fleroxacin, Flumequine, Lomefloxacin, Marbofloxacin, Norfloxacin, Ofloxacin, Oxolinic acid, Sarafloxacin, Sparfloxacin	LC-MS/MS	0,005 mg/Kg
27007	Chinolones (14 substances) ^{a)}	LC-MS/MS	0,002 mg/Kg
13500	Dapsone ^{a)}	LC-MS/MS	0,5 µg/Kg
24000	Macrolides (9 substances) ^{a)} Azithromycin, Clarithromycin, Clindamycin, Erythromycin (as anhydride), Josamycin, Lincomycin, Spiramycin, Tilimicosin, Tylosin	LC-MS/MS	0,005 mg/Kg
24005	Macrolides (9 substances) ^{a)}	LC-MS/MS	0,002 mg/Kg
22000	Nitrofurantolol (5 substances) ^{a)} AOZ, AMOZ, AHD, SEM, DNSH	LC-MS/MS	0,5 µg/Kg 1,0µg/Kg (SEM)

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42000	Nitroimidazoles (4 substances) ^{a)} Dimetronidazole, Ipronidazole, Metronidazole, Ronidazole	LC-MS/MS	0,5 µg/Kg
21004	Sulfonamides (20 substances) ^{a)} Ormethoprim, Trimethoprim, Succinylsulfathiazole, Sulfabenzamide, Sulfachlorpyridazine, Sulfaclozine, Sulfadiazine, Sulfadimethoxime, Sulfadoxine, Sulfamerazine, Sulfameter, Sulfamethazine, Sulfamethoxazole, Sulfamethoxypyridazine, Sulfamonomethoxime, Sulfamoxole, Sulfapyridine, Sulfaguinoxaline, Sulfathiazole, Sulfisoxazole	LC-MS/MS	0,005 mg/Kg
21010	Sulfonamides (20 substances) ^{a)}	LC-MS/MS	0,002 mg/Kg
20000	Tetracyclines (5 substances) ^{a)} Chlortetracycline, Demeclocycline, Doxycycline, Oxytetracycline, Tetracycline	LC-MS/MS	0,005 mg/Kg
20009	Tetracyclines (5 substances) ^{a)}	LC-MS/MS	0,002 mg/Kg
packages		description	
107	antibiotics 1 (code: 27000, 24000, 20000)	Chinolones, Macrolides, Tetracyclines	
108	antibiotics 2 (code: 25000, 21004, 20000)	Aminoglycosides, Sulfonamides, Tetracycline	
109	antibiotics 3 (code: 27000, 24000)	Chinolones, Macrolides	
163	antibiotics 5 "banned substances" (code: 26000, 22000, 42000)	Amphenicoles, Nitrofurantolmetabolites, Nitroimidazoles	
175	antibiotics XL (5ppb) (code: 25000, 21004, 20000, 27000, 24000)	Aminoglycosides, Sulfonamides, Tetracycline, Chinolones, Macrolides	
271	antibiotics XL (2ppb) (Streptomycin, Dihydrostreptomycin 5ppb) (code: 25000, 21010, 20009, 27007, 24005)	Aminoglycosides, Sulfonamides, Tetracycline, Chinolones, Macrolides	

3. residues

code	description	technology	LOQ
33000	Amitraz ^{a)}	GC-MS	0,01 mg/Kg
33005	Amitraz ^{a)}	GC-MS	0,005 mg/Kg
128	Bee repellents (6 substances) ^{a)} Benzaldehyde, Naphthalene, Nitrobenzene, Phenol, Phenylacetaldehyde, Thymol	GC-MS	depending on analyte
32100	1,4-Dichlorbenzene ^{a)}	GC-MS	0,01 mg/Kg
32104	1,4-Dichlorbenzene ^{a)}	GC-MS	0,005 mg/Kg
60100	Glyphosate + Glufosinate ^{a)}	LC-MS/MS	0,01 mg/Kg
12203	Neonicotinoides (7 substances) ^{a)} Acetamiprid, Clothianidin, Dinotefuran, Imidacloprid, Nitenpyram, Thiacloprid, Thiamethoxam	LC-MS/MS	0,01 mg/Kg
40000	Pesticides GC (29 substances) ^{a)} -typical for honey- Acrinathrin, Allethrin, Cefafix, cis-/trans-Chlordan, Chlorpyrifos, Cyfluthrin, lambda-Cyhalothrin, Cypermethrin, Deltamethrin, Dicofof, Dieldrin, α-/β-/γ-/δ-HCH, Heptachlor, Fenvalerate, Fipronil, Flumethrin, Folpet, Iprodione, Malathion, Methoxychlor, Permethrin, Phosalone, Phthalimid, Tetradifon, Vinclozolin	GC-MS	0,01 mg/Kg
41000	Pesticides LC (69 substances) ^{a)} -typical for honey- Aldicarb, Atrazin, Azoxystrobin, Boscalid, Carbendazim, Chlormimeform (only for honey available), Chlorfenvinphos, Clomazon, Cymiazole, Cyprodinil,	LC-MS/MS	0,01 mg/Kg

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	DEET, Diazinon, 2,4 Dichlorophenoxyacetic acid, Difenconazol, Dimethoat, Dimethomorph, Dimoxystrobin, Epoxiconazol, Ethofumesat, Etofenprox, Fenhexamid, Fenoxycarb, Fenpropimorph, Flonicamid, Fluazifop-butyl, Fluazinam, Fludioxonil, Flumioxacin, Fluopicolide, Fluopyram, Flupyradifurone, Haloxypop-etotyl, Haloxypop-methyl, Iprovalicarb, Isoproturon, Kresoxim-methyl, Mandestrobin, Mandepropamid, Matrine, MCPA, Mepanipyrim, Metalaxyl, Metconazol, Methiocarb, Metolachlor, Metrafenon, Myclobutanil, Oxymatrine, Pendimethalin, Pirimicarb, Prochloraz, Propamacarb, Propargit, Prosulfocarb, Prothioconazol, Pyraclostrobin, Pyrimethanil, Rotenon, Spinosad A, Spinosad D, Tebuconazol, Tebufenozid, Terbutylazin, Thifensulfuron-methyl, Thiophanat-methyl, Tolyfluanid Trichlorfon, Trifloxystrobin, Triflumoron,		
12000	Phenol ^{a)}	LC	0,03 mg/Kg
46000	Pyrrolizidinalcaloids acc. BfR-28 list incl. co-elutions (42 substances) ^{a)} Echimidin, Echimidin-N-oxid, Echinatin, Echinatin-N-oxid, Erucifolin, Erucifolin-N-oxid, Europin, Europin-N-oxid, Heliosupin, Heliosupin-N-oxid, Heliotrin, Heliotrin-N-oxid, Intermedin, Intermedin-N-oxid, Indicin, Indicin-N-oxid, Integerrimin, Integerrimin-N-oxid, Jacobin, Jacobin-N-oxid, Lasiocarpin, Lasiocarpin-N-oxid, Lycopsamin, Lycopsamin-N-oxid, Monocrotalin, Monocrotalin-N-oxid, Retrorsin, Retrorsin-N-oxid, Rinderin, Rinderin-N-oxid, Senecionin, Senecionin-N-oxid, Seneciphyllin, Seneciphyllin-N-oxid, Seneciverin, Seneciverin-N-oxid, Senkirkin, Spartoidin, Spartoidin-N-oxid, Trichodesmin, Usaramin, Usaramin-N-oxid	LC-MS/MS	1 µg/Kg 10 µg/Kg PA-N-oxide
31000	veterinary drugs (4 substances) ^{a)} Coumaphos, Fluvallinate, Dibrombenzophenone, Brompropylate	GC-MS	0,01 mg/Kg
46050	Tropanalcaloids (5 substances) ^{a)} Anisodamin, Atropin, Atropin-N-oxid, Norscopolamin, Scopolamin	LC-MS/MS	5 µg/Kg 1 µg/Kg Atropin and Scopolamin
	packages	description	
137	Pesticides 1 (typical for honey) (code: 40000, 41000)	Pesticides GC, Pesticides LC	
147	Pesticides 2 (typical for honey) (code: 41000, 12203)	Pesticides LC, Neonicotinoides	
174	Pesticides XL (typical for honey) (code: 40000, 41000, 12203, 31000, 33000)	Pesticides GC, Pesticides LC, Neonicotinoides, veterinary drugs, Amitraz	
177	Bee repellents and 1,4 Dichlorobenzene (code: 128, 32100)	Bee repellents, 1,4 Dichlorobenzene	
500	Pesticides XXL (>800 substances acc. current substance list) ^{aU)}	Pesticides GC-MS/MS, LC-MS/MS	
508	specific analytics of pesticides max. 10 substances of spectrum Pesticides XXL (>800 subst.) ^{aU)}	Pesticides GC-MS/MS, LC-MS/MS	
509	specific analytics of pesticides max. 10 substances (inhouse relevant spectrum for bee products)	Pesticides GC-MS/MS, LC-MS/MS	
103	veterinary drugs 1 (code: 31000, 40000)	veterinary drugs, Pesticides GC	

4. authenticity/ adulteration

code	description	technology	LOQ
951	addition of HMF-LESS products ^{a)}	diverse	pos./neg.

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952	addition of Diastase-PLUS products ^{a)}	diverse	pos./neg.
37000	13C isotopic analytics ^{a)} honey + protein, C4-sugar detection	EA-IRMS (AOAC 998.12)	1% C4-sugar
37044	13C isotopic analytics ^{a)} sugar fractions	LC-IRMS	---
	arsenic ^{a)} , see table 5 (metals/elements)	ICP-MS	---
37002	activity of β -Fructofuranosidase ^{a)}	LC	pos./neg.
37016	activity of β -Amylase/ gamma-Amylase ^{a)}	LC	pos./neg.
37022	activity of honeyforeign alpha -Amylase ^{a)}	enzymatic	pos./neg.
38200	activity of heatstable Amylases ^{a)}	enzymatic	pos./neg.
37012	caramel colouring (E150c/d) ^{a)}	LC-MS/MS	pos./neg.
38401	Difructoseanhydride ^{a)}	LC-MS/MS	1mg/kg
37009	honey foreign oligosaccharides ^{a)} honey foreign oligosaccharides/ psicose	LC	pos./neg. (0,05% psicose)
380	LC-HRMS authenticity screening (focused on foreign C3- sugar products) ^{a)} Screening of C3- products, Detection of inverted syrups, Detection of foreign oligosaccharides, Ectoin	LC-HRMS	---
	NMR authenticity, see table 7(NMR-analytics)	NMR	---
38221	Mannose ^{a)}	LC	0,05mg/kg
840	Proteomics ^{a)} (9 proteins) honey foreign enzymes/ proteins: alpha-Amylase (Aspergillus niger, Aspergillus oryzae, Aspergillus amyloliquefaciens, Aspergillus licheniformis); beta- Amylase (Hordeum vulgare); Glucoamylase (Aspergillus niger); Invertase (Saccharomyces cerevisiae) endogenous honey enzymes/ proteins: alpha-Amylase (Apis mellifera); MRJP 1 (Apis mellifera)	LC-MS/MS	pos./neg.
37008	Rice-syrup-marker (RSM) ^{a)} and sugar beet syrup marker (SMB) ^{a)} Glycosylisomaltol, 3-Methoxytyramin	LC-MS/MS	RSM: 5 mg/kg SMB: 0,005 mg/kg
	packages	description	
850	AUTHENT-check (code: 37000, 380)	EA-IRMS (C4-sugars), LC-HRMS (C3-sugars)	
851	AUTHENT-check 2 (code: 921, 380)	13C EA/LC-IRMS (C4-sugars) LC-HRMS (C3-sugars)	
852	AUTHENT-check 3 (code: 921, 380, 150)	13C EA/LC-IRMS (C4-sugars) LC-HRMS (C3-sugars) NMR-authenticity	
921	13C EA/LC-IRMS (code: 37000, 37044)	13C EA/LC-IRMS	
160	authenticity 1 (code: 37002, 37016)	activity of β -Fructofuranosidase, β /gamma-Amylase	
161	authenticity 2 (code: 37002, 37009, 37016)	activity of β -Fructofuranosidase, β /gamma-Amylase, psicose, honey foreign oligosaccharides	
162	authenticity 3 (code: 37002, 37016, 37009, 37008)	activity of β -Fructofuranosidase, β /gamma-Amylase, honey foreign oligosaccharides, RSM, psicose	
176	authenticity 4 (code: 37000, 37002, 37016, 37009)	13C isotopic analytics, activity of β -Fructofuranosidase, β /gamma-Amylase honey foreign oligosaccharides, psicose	

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185	authenticity 4 plus heat stable amylases (code: 37000, 37002, 37016, 37009, 38200)	13C isotopic analytics, activity of β -Fructofuranosidase, β /gamma-Amylase, honey foreign oligosaccharides heatstable Amylase, psicose
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5. metals /elements

code	description	technology	LOQ
51000	sample preparation ²⁾	acid hydrolysis	---
code	description	technology	LOQ
50200	arsenic ^{a)}	ICP-MS	0,01 mg/kg
50400	cadmium ^{a)}	ICP-MS	0,02 mg/kg
50300	lead ^{a)}	ICP-MS	0,02 mg/kg
50600	mercury ^{a)}	ICP-MS	0,005 mg/kg
packages		description	
701	Heavy metals 1 ^{a)} (code: 50300, 50400, 50600, 50000)	lead, cadmium, mercury incl. acid hydrolysis	

Further metals/ elements on request

6. genetically modified organism (GMO)

code	description	analysis	LOQ
screening			
47000	sample preparation ¹⁾	pollen extraction/ DNA extraction + clean-up	---
47050	screening 1 ^{a)}	35S/NOS/FMV	10 copies
combi- test		description	
47059	Triplex 35S ^{a)}	corn MON810 - corn T25 - CaMV	
single events			
47138	GOX (canola GT73 + canola GT200) ^{a)}	detection of glyphosat-resistance- genes	5 copies
47104	CaMV ^{a)}	detection of the nat. cauliflower mosaic virus	5 copies
single events „corn“			
47124	corn Bt176 ^{a)}	SYN-EV176-9	5 copies
47137	corn DP09814-6 ^{a)}	DP- Ø9814Ø-6	5 copies
47116	corn MON810 ^{a)}	MON810 corn (MON-ØØ81Ø-6)	5 copies
47118	corn T25 ^{a)}	T25 corn (ACS-ZMØØ3-2)	5 copies
47132	corn 3272 ^{a)}	SYN-E3272-5	5 copies
single events „canola“			
47111	canola GT73 ^{a)}	GT73 canola (MON-ØØØ73-7)	5 copies
single events „soy“			
47108	soy Round-up Ready ^{a)}	Round-up Ready soy (MON-Ø4Ø32-6)	5 copies
47109	soy Round-up Ready-2 Yield ^{a)}	Round-up Ready 2 Yield	5 copies

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		soy (MON-89788-1)	
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7. NMR- analytics by Honey-Profiling™ (3.1 specifications)

code	description	explanation
150	NMR-authenticity ^{a)}	1. verification of foreign sugars 2. uni-/ multivariate statistics
151	NMR-authenticity and geographical/ botanical origin ^{a)} 21 different origins 13 different monofloral varieties	code 150 plus 1.verification of the geographical origin model (country): Argentina, Brazil, Bulgaria, Canada, Chile, China, Cuba, France, Germany, Guatemala, Hungary, India, Mexiko, New Zealand, Romania, Spain, Thailand, Turkey, Ukraine, Uruguay, Vietnam 2.verification of the botanical origin model (type of honey): Acacia, Blossom, Chestnut, Eucalyptus (South America), Heather, Honeydew, Lavender (Provence), Linden, Manuka, Orange, Pine (Turkey), Rape blossom, Sunflower, Thyme (Spain), Vitex
152	NMR-authenticity ^{a)} and 15 honey relevant parameters ^{a)} (screening)	code 150 plus acetic acid, citric acid, ethanol, formic acid, fructose, F/G, F+G, glucose, hydroxymethylfurfural (HMF), lactic acid, mannose, maltose, melezitose, proline, sucrose
153	NMR-authenticity ^{a)} , geographical/ botanical origin ^{a)} and 15 honey relevant parameters ^{a)} (screening)	code 151 plus acetic acid, citric acid, ethanol, formic acid, fructose, F/G, F+G, glucose, hydroxymethylfurfural (HMF), lactic acid, mannose, maltose, melezitose, proline, sucrose
154	NMR-full service incl. 38 quality parameters ^{a)} (screening)	code 152 plus acetic acid, acetoin, alanine, aspartic acid, 2,3-butanediol, citric acid, dihydroxyacetone (DHA), ethanol, formic acid, fructose, F/G, F+G, fumaric acid, gentiobiose, glucose, glutamine, hydroxymethylfurfural (HMF), kynurenic acid, lactic acid, leucine, malic acid, maltose, maltotriose, mannose, melezitose, methylglyoxal (MGO), phenylalanine, 3-phenyllactic acid, proline, pyruvic acid, quinic acid, raffinose, shikimic acid, succinic acid, sucrose, turanose, tyrosine, valine
	packages	description
99503	Batch check ^{a)}	Information about comparability to first sample
192	NMR Manuka – authenticity ^{a)}	NMR-authenticity and geographical /

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	botanical origin (code 151) plus MGO (Methylglyoxal), DHA (Dihydroxyacetone), 3-Phenyllactic acid
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8. microbiology

code	description	technology	LOQ
70160	sample preparation ³⁾	---	---
code	description	technology	LOQ
70164	aerobic sporeforming	microbiology	---
70169	coliforme germs	microbiology	10 cfu/g
70168	E-Coli	microbiology	10 cfu/g
70162	enterobacteria ^{aU)}	microbiology	10 cfu/g
70199	listeria monocytogenes ^{aU)}	microbiology	pos./neg./25g
70161	total aerobic mesophyll bacteria count	microbiology	10 cfu/g
70166	mold	microbiology	10 cfu/g
70163	salmonella ^{aU)}	microbiology	pos./neg./25g
70198	staphylococcus (coagulase positive) ^{aU)}	microbiology	100 cfu/g
70165	sulfite-reducing clostridia ^{aU)}	microbiology	10 cfu/g
70167	yeasts	microbiology	10 cfu/g

9. additional specific services

code	description	technology	LOQ
423	chlorate/ perchlorate ^{a)}	LC-MS/MS	0,01mg/Kg
760	Declaration	---	---
41850	Dithiocarbamates ^{aU)}	GC-MS	0,01 mg/Kg (CS ₂)
29201	Perfluoralkyl substances (PFAs) ^{aU)} (14 substances) Carboxylic acids (PFOA): Perfluorbutane,- pentane,- hexane,-heptane,-octane,-nonane,-decane,-undecane,- dodecane,-tridecane,-tetradecanoicacid Sulfonic acid (PFOS): perfluorbutansulfone,- hexansulfone,-octansulfonicacid	LC-MS/MS	0,1µg/Kg
41800	Polychlorinated biphenyls (PCBs) ^{a)} (6 substances) PCB 28,52,101,138,153,180	GC-MS/MS	0,01mg/Kg
46030	Polycyclic aromatic hydrocarbons (PAHs) ^{a)} (16 substances, EPA-method) ^{a)} Acenaphthalene, Acenaphthylene, Anthracene, Benz(a)anthracene, Benzo(a)pyrene, Chrysene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene	GC-MS	0,1µg/kg; 0,3µg/kg Naphthalene
70215	quaternary ammonium compounds ^{a)} (9 substances) BAC 8, BAC 10, BAC 12, BAC14, BAC 16, BAC 18, DDAC 8, DDAC 10, DDAC 12	LC-MS/MS	0,01mg/Kg

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10. bee diseases

code	description	technology	LOQ
906	American Foulbrood ^{aU)} Peanibacillus larvae	PCR	pos./neg.
907	Nosema spores ^{aU)}	microscopy	pos./neg.
908	Nosema ceranae ^{aU)}	PCR	pos./neg.
909	Nosema apis ^{aU)}	PCR	pos./neg.

Additional specific analytical services for royale jelly, propolis

Royale jelly

Further relevant analyses for Royal jelly (shown in the honey services) are also available

code	description	technology	LOQ
13201	10-Hydroxydecenacid (10-HDA)	LC	0,1 mg/kg
10403	water/ drymatter ^{a)}	gravimetry	1%

Propolis/- products

Further relevant analyses for Propolis (shown in the honey services) are also available

code	description	technology	LOQ
70405	drymatter ^{a)}	gravimetry	---
70409	Flavonoids acc. Ph.Eur. (calc. as hyperoside) ^{aU)}	photometric	0,5 g/100g
70401	Flavonoids acc. DAB (calc. as quercetin) ^{aU)}	aluminium chloride method	0,5 g/100g
70403	total polyphenols (Folin-Ciocalteu) ^{aU)}	photometric	0,09 % (g/100g)
70407	wax content ^{aU)}	gravimetry	---

^{a)} accredited method

^{aU)} accredited method by sub-order lab

note: for generating mix- samples there would be a standard price of €10/mixed sample charged (code 45998).

¹⁾ for GMO analysis, it is important to make the sample preparation first. Afterwards it is possible to analyze up to 5 GMO single events per sample.

²⁾ for metal analysis, it is important to make the sample preparation first. Afterwards it is possible to analyze up to 10 different metals per sample.

³⁾ for microbiologic analysis, it is important to make the sample preparation first. Afterwards it is possible to analyze further different microbiologic analysis per sample.

⁴⁾ for NMR analytics: No consideration of measurement uncertainty in the evaluation

Further analyses on request

All prices in EURO excluding VAT



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Conditions of payment: 14 days from date of invoice

Sample amount: minimum 100g per sample (honey), 30g for royale jelly, for GMO analysis additionally min. 100g per sample.

Processing time:

- normally 2-3 days for trade analysis, GMO
- normally up to 5 days for residues/antibiotics, NMR, metals and microbiology

Storage:

- samples will be stored until 6 months at room temperature
- royale jelly will be stored at -18°C