

Report ID	Report Date: 11/6/2021 Sample Code : 14699.210604/1920 Pages: 6
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Sample ID	Product: Honey Labeling from client: BATCH 120521 Sampling: By client Quantity: 300g Sample preservation: Ambient temperature Date of sample receipt: 4/6/2021 Dates(s) of test(s) performance: 7-10/6/2021

	Parameter	Result	RL	Legislation Limit	Methods Code	Methods
1	Moisture (% w/w)	16,2	--	$\leq 20^{(1)}$	M01/F1Y13/OS	IHC 2002/ 1. Moisture, refractometry
2	Conductivity 20°C (mS/cm)	0,384	--	$\leq 0,8^{(1)}$	M02/F1Y13/OS	IHC 2002/ 2. Electrical conductivity
3	Diastase Number (DN)	30,2	3,0	$\geq 8^{(1)}$	M06/F1Y13/AM	IHC 2002/ 6.2 Determination of diastase activity with Phadebas
4	Hydroxymethylfurfural (HMF) (mg/kg)	<2,0	2,0	$\leq 40^{(1)}$	M05/F1Y13/AM	IHC 2002/ 5.2 Determination of HMF after White
5	pH (20°C)	3,76	--	--	M03/F1Y13/OS	IHC 2002/ 4. pH
6	Free acidity (meq acid/kg)	35,5	--	$\leq 50^{(1)}$	M04/F1Y13/OS	IHC 2002/ 4. Free acidity
7	Sugars Profile (% w/w)	67,5	--	⁽¹⁾	M08/F1Y13/OS	IHC 2002/ 7.2 HPLC-RI
	Glucose (% w/w)	30,2	0,2	≥ 60 as reducing sugars (sum)		
	Fructose (% w/w)	36,0	0,2	-		
	Maltose (% w/w)	0,2	0,2	-		
	Sucrose (% w/w)	1,1	0,2	≤ 5		
8	Pollen analysis	Fabaceae 42,7%	--	--	M07/F1Y13/AM	Harmonized methods of melissopalynolo

		Rosaceae 33,9% see Table 1				gy. Apidologie, 35:18- 25 (2004)
9	Pesticides Residue (mg/kg)	Not detected <RL see Table 2	0,01 - 0,04	--	M21/GF/OS	GC/ECD/FPD/ NPD
10	Antibiotics Residue (mg/kg)	Not detected <RL see Table 3	4-25	nd ⁽²⁾	M26/F1Y13/OS	HPLC/MS-MS

RL: Reporting Limit (Limit of Quantification of method). Methods that are accredited (ISO17025:2005) are described with “/AM” at the end of the method’s code. Methods out of the scope of accreditation are described with “/OS” at the end of the method’s code. Tests performed by subcontractors are identified by the symbol *. The accreditation number of the subcontractor is referred at the end of this report. All tests are performed in HELLASCHEM facilities, unless differently mentioned in the certificate of analysis.

Notes:

- (1) Greek Code of Food & Drinks, articles 67 & 67a
- (2) Regulation 37/2010/EC and its amendments
- (3) Regulation 1881/2006/EC and its amendments
- (4) HARMONISED METHODS OF THE INTERNATIONAL HONEY COMMISSION, 2002

Table 1: Pollen qualitative and quantitative analysis

No of grains (per 10g of honey)	26100
Dominant grain (%) of nectariferous grains	Fabaceae 42,7%
Dominant grain (%) of total grains	Fabaceae 42,1%

Nectariferous pollen species	%
Thymus	0,6
Acanthaceae	2,3
Anacardiaceae	1,2
Apiaceae - umbelifeae	1,2
Apsacaceae	1,2
Asteraceae	0,6
Brassicaceae	1,8
Ericaceae	5,8
Fabaceae -leguminosae	42,7
Liliaceae	2,3
Meliaceae	0,6
Mimosaceae	1,2
Myrtaceae	4,7
Rosaceae	33,9

Table 2: Pesticides Residue - Results

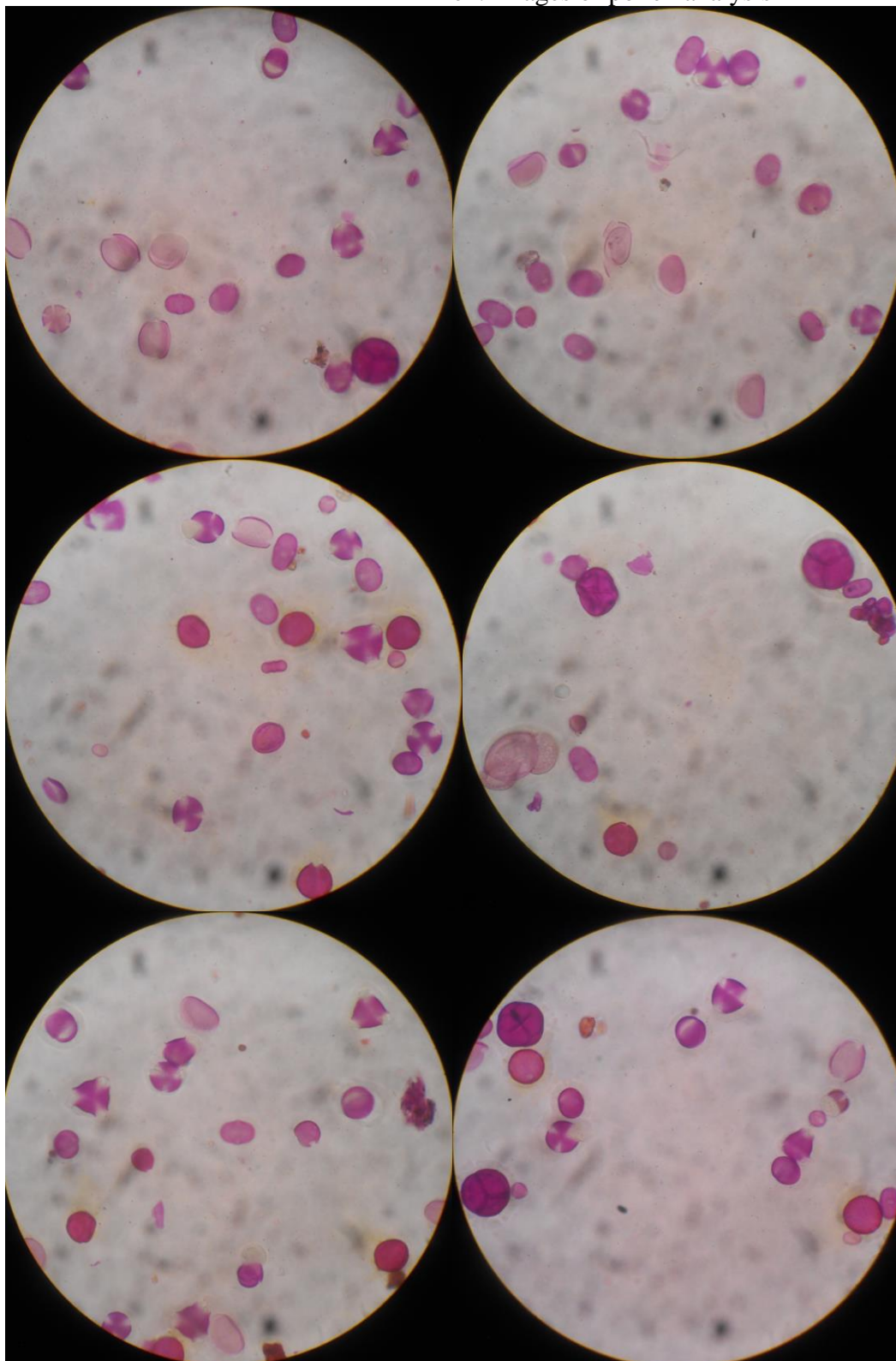
	Substance	RL		Substance	RL
1	Acephate	<0,010ppm	45	Cyhalothrin –λ	<0,010ppm
2	Acetochlor	<0,010ppm	46	Cymiazol	<0,010ppm
3	Acrinanthrin	<0,010ppm	47	Cypermethrin	<0,010ppm
4	Alachlor	<0,010ppm	48	DDD - op	<0,010ppm
5	Aldicarb sulfone	<0,010ppm	49	DDD - pp	<0,010ppm
6	Aldicarb sulfoxide	<0,010ppm	50	DDE - op	<0,010ppm
7	Aldrin	<0,010ppm	51	DDE - pp	<0,010ppm
8	Ametryn	<0,010ppm	52	DDT - o,p	<0,010ppm
9	Amitraz	<0,010ppm	53	DDT - p,p	<0,010ppm
10	Atrazine	<0,010ppm	54	Deltamethrin	<0,010ppm
11	Azinphos ethyl	<0,010ppm	55	Demeton S methyl	<0,010ppm
12	Azinphos methyl	<0,010ppm	56	Desmedipham	<0,010ppm
13	Benfularin	<0,010ppm	57	Desmetryn	<0,010ppm
14	Benfuracarb	<0,010ppm	58	Diazinon	<0,010ppm
15	Benomyl	<0,010ppm	59	Dichlorvos	<0,010ppm
16	Bifenox	<0,010ppm	60	Dicrotophos	<0,010ppm
17	Bifenthrin	<0,010ppm	61	Dieldrin	<0,010ppm
18	Bromophos ethyl	<0,010ppm	62	Dimethoate	<0,010ppm
19	Bromophos methyl	<0,010ppm	63	Dimoxystrobin	<0,010ppm
20	Bromopropylate	<0,010ppm	64	Diniconazole	<0,010ppm
21	Cadusaphos	<0,010ppm	65	Dinitramine	<0,010ppm
22	Captafol	<0,010ppm	66	Dinocap	<0,010ppm
23	Captan	<0,010ppm	67	Ditalimfos	<0,010ppm
24	Carbaryl	<0,010ppm	68	Ditalimfos	<0,010ppm
25	Carbendazim	<0,010ppm	69	Endosulfan- a	<0,010ppm
26	Carbofuran	<0,010ppm	70	Endosulfan- b	<0,010ppm
27	Chlordan - cis	<0,010ppm	71	Endosulfan sulfate	<0,010ppm
28	Chlordan - trans	<0,010ppm	72	Endrin	<0,010ppm
29	Chlordinafop	<0,010ppm	73	Esfenvalerate	<0,010ppm
30	Chlorfenapyr	<0,010ppm	74	Etaconazole	<0,010ppm
31	Chlorfenvinphos	<0,010ppm	75	Ethalfluralin	<0,010ppm
32	Chlorobezilate	<0,010ppm	76	Ethion	<0,010ppm
33	Chlorothalonil	<0,010ppm	77	Ethionfencarb	<0,010ppm
34	Chlorpyrifos	<0,010ppm	78	Ethoprophos	<0,010ppm
35	Chlorpyrifos methyl	<0,010ppm	79	Etoxazol	<0,010ppm
36	Climbazol	<0,010ppm	80	Fenbuconazole	<0,010ppm
37	Clothianidine	<0,010ppm	77	Ethionfencarb	<0,010ppm
38	Coumaphos	<0,010ppm	78	Ethoprophos	<0,010ppm
39	Crimidine	<0,010ppm	79	Etoxazol	<0,010ppm
40	Cyanazine	<0,010ppm	80	Fenbuconazole	<0,010ppm
41	Crimidine	<0,010ppm	81	Fenhexamid	<0,010ppm
42	Cyanazine	<0,010ppm	82	Fenamiphos	<0,010ppm
43	Cymoxanil	<0,010ppm	83	Fenamiphos sulfone	<0,010ppm
44	Cyfluthrin	<0,010ppm	84	Fenarimol	<0,010ppm

	Substance	RL		Substance	RL
85	Fenitrothion	<0,010ppm	133	Omethoate	<0,010ppm
86	Fenphos sulfoxide	<0,010ppm	134	Oxyfluorfen	<0,010ppm
87	Fensulfothion	<0,010ppm	135	Paclobutrazole	<0,010ppm
88	Fenthion	<0,010ppm	136	Parathion	<0,010ppm
89	Fenthion sulfone	<0,010ppm	137	Parathion methyl	<0,010ppm
90	Fenthion sulfoxide	<0,010ppm	138	Penconazole	<0,010ppm
91	Fenvalerate	<0,010ppm	139	Pendimethalin	<0,010ppm
92	Fluazinam	<0,010ppm	140	Permethrin	<0,010ppm
93	Flucythrinate	<0,010ppm	141	Phenmedipham	<0,010ppm
94	Fludioxonil	<0,010ppm	142	Phorate	<0,010ppm
95	Flumethrin	<0,010ppm	143	Phosmet	<0,010ppm
96	Fluopicolide	<0,010ppm	144	Phosphamidon	<0,010ppm
97	Fonofos	<0,010ppm	145	Picolinafen	<0,010ppm
98	Formothion	<0,010ppm	146	Picoxystrobin	<0,010ppm
99	Haloxfop	<0,010ppm	147	Piperonyl butoxide	<0,010ppm
100	HCH - a	<0,010ppm	148	Pyrimicarb	<0,010ppm
101	HCH - b	<0,010ppm	149	Pyrimiphos methyl	<0,010ppm
102	HCH - d	<0,010ppm	150	Procymidone	<0,010ppm
103	HCH - e	<0,010ppm	151	Profoxydim	<0,010ppm
104	Heptachlor	<0,010ppm	152	Prometon	<0,010ppm
105	Heptachlor cis epoxide	<0,010ppm	153	Prometryn	<0,010ppm
106	Heptachlor trans epoxide	<0,010ppm	154	Propaquizafop	<0,010ppm
107	Hexachlorobenzene	<0,010ppm	155	Propargyl	<0,010ppm
108	Hexaflumuron	<0,010ppm	156	Propazine	<0,010ppm
109	Iprodione	<0,010ppm	157	Propham	<0,010ppm
110	Isodrin	<0,010ppm	158	Propiconazol	<0,010ppm
111	Isoproturon	<0,010ppm	159	Proquinazid	<0,010ppm
112	Isoxaflutole	<0,010ppm	160	Pyrethrins	<0,010ppm
113	Kresoxim methyl	<0,010ppm	161	Pyridaben	<0,010ppm
114	Lenacil	<0,010ppm	162	Pyrifenox	<0,010ppm
115	Lindane (ghch)	<0,010ppm	163	Quinalphos	<0,010ppm
116	Malathion	<0,010ppm	164	Quinoxifen	<0,010ppm
117	Methidathion	<0,010ppm	165	Quintozene	<0,010ppm
118	Mecarbam	<0,010ppm	166	Sethoxydim	<0,010ppm
119	Mecarbam	<0,010ppm	167	Simazine	<0,010ppm
120	Mepronil	<0,010ppm	168	Spirodiclofen	<0,010ppm
121	Meptyldinocap	<0,010ppm	169	Spirodiclofen	<0,010ppm
122	Metamitron	<0,010ppm	170	Tau - fluvalinate	<0,010ppm
123	Metazachlor	<0,010ppm	171	Tebuconazole	<0,010ppm
124	Methacrifos	<0,010ppm	172	Tetradifon	<0,010ppm
125	Methamidophos	<0,010ppm	173	Triadimefon	<0,010ppm
126	Methoxychlor	<0,010ppm	174	Triazophos	<0,010ppm
127	Metribuzin	<0,010ppm	175	Triflumizole	<0,010ppm
128	Mirex	<0,010ppm	176	Trifluralin	<0,010ppm
129	Monocritophos	<0,010ppm	177	Triticonazol	<0,010ppm
130	Nitrofen	<0,010ppm	178	Vamidothion	<0,010ppm
131	Nuarimol	<0,010ppm	179	Vinchlozoline	<0,010ppm
132	Ofurace	<0,010ppm	180	Zoxamide	<0,010ppm

Table 2: Antibiotics Residue

	Antibiotics	Result	RL
1	Oxytetracycline dehydrate (µg/kg)	<10	10
2	Tetracycline hydrochloride (µg/kg)	<10	10
3	Chlorotetracycline.HCl (µg/kg)	<10	10
4	Doxycycline hydrochloride (µg/kg)	<10	10
5	Sulfadiazine (µg/kg)	<10	10
6	Sulfabenzamide (µg/kg)	<10	10
7	Sulfacetamide (µg/kg)	<10	10
8	Sulfachloropyridazine (µg/kg)	<10	10
9	Sulfaclozine (µg/kg)	<10	10
10	Sulfadimethoxine (µg/kg)	<10	10
11	Sulfadoxine (µg/kg)	<10	10
12	Sulfaguanidine (µg/kg)	<10	10
13	Sulfamerazine (µg/kg)	<10	10
14	Sulfameter (µg/kg)	<10	10
15	Sulfamethazine (µg/kg)	<10	10
16	Sulfamethizole (µg/kg)	<10	10
17	Sulfamethoxazole (µg/kg)	<10	10
18	Sulfamethoxypyridazine (µg/kg)	<10	10
19	Sulfamonomethoxine (µg/kg)	<10	10
20	Sulfanitran (µg/kg)	<10	10
21	Sulfapyridine (µg/kg)	<10	10
22	Sulfaquinoxaline (µg/kg)	<10	10
23	Sulfathiazole (µg/kg)	<10	10
24	Sulfisoxazole (µg/kg)	<10	10
25	Chloramphenicol (µg/kg)	<10	10
26	Fumagillin (µg/kg)	<25	25
27	Flumequine (µg/kg)	<10	10
28	Trimethoprim (µg/kg)	<10	10
29	Penicillin G (µg/kg)	<4	4
30	Penicillin V (µg/kg)	<4	4
31	Natamycin (µg/kg)	<25	25

Annex: Images of pollen analysis



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HELLASCHEM
Nikiforos Iliopoulos
HELLASCHEM Manager

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Page of certificate of analysis of sample with sample code: 14699.210604/1920