CERTIFICATE OF ANALYSIS

Report ID	**Report Date:** 10/12/2025 **Sample Code:** 37368.251205/3070 **Pages:** 4
Client ID	**Company:** Honey Helmos **Address:** Ano Loussi Soudena Kalavryta. Ahaia PC 25001, Greece **Phone number:** 6953079622 **Fax:** **Email:** melihelmos@gmail.com
Sample ID	**Product:** Honey **Labeling from client:** Thymus honey LOT:201125 **Sampling:** By client **Quantity:** 400g **Sample preservation:** Ambient temperature **Date of sample receipt:** 5/12/2025 **Dates of tests performance:** 5-10/12/2025

	Parameters	Results	RL	Legislation Limits	Method code	Methods
1	Moisture (%w/w)	15,4	--	≤20(1)	M01/F1Y13/OS	IHC(2) 2009/1 Moisture, refractometry
2	pH (20^{0}C)	3,7	--	--	M03/F1Y13/OS	IHC 2009/ 4. pH
3	Free acidity (meq acid/kg)	30,0	--	<50(1)	M04/F1Y13/OS	IHC 2009/ 4. Free acidity
4	Conductivity (mS/cm) (20^{0}C)	0,354	--	≤0,6(1)	M02/F1Y13/OS	IHC 2009/ 2. Electrical conductivity
5	Hydroxymethylfurfural (HMF) (mg/kg)	3,1	2,0	≤40(1)	M05/F1Y13/AM	IHC 2009/ 5.2 Determination of HMF after White
6	Diastase Number (DN)	13,5	3,0	≥8(1)	M06/F1Y13/AM	IHC 2009/ 6.2 Determination of diastase activity with Phadebas
7	Glucose (%w/w)	30,6	0,2	≥60 as sum of invert sugar (1)	M08/F1Y13/OS	HPLC - RI
	Fructose (%w/w)	36,3	0,2			
	Maltose (%w/w)	1,4	0,2			
	Sucrose (%w/w)	0,5	0,1	≤5(1)		
8	Thymus pollen of nectariferous (%)	41,8% Thymus honey	-	≥18%(1)	M07/F1Y13/AM	Harmonized methods of melissopalynology. Apidologie, 35:18-25 (2004)
9	Amitraz residues (mg/kg)	<0,01 (Table 1)	--	--	M26/F1Y13/OS	QUECHERS Extrn GC/NPD/FPD/ECD

RL: Reference Limit. Methods that are accredited according to ISO 17025:2017 are described with the "/AM" at the end of the method's code and methods that are out of the scope of accreditation are described with the "/OS" at the end of the method's code. All tests are performed in HELLASCHEM facilities except if other comment refers somewhere else. Results of tests performed by subcontractors are identified by the symbol *. The accreditation number of the subcontractor is referred to at the end of this report.

Notes:
(1) Greek Code of Food & Drinks, articles 67 & 67a, Directive (EC) 110/2001 (limits for thyme honey)
(2) Harmonised Methods of the International Honey Commission, 2009
(3) Regulation 37/2010/EC and its amendments
(4) HELLASCHEM laboratories decision rules of declaration of compliance for a level of confidence 95% (as referred below), where U = expanded uncertainty for a level of confidence 95%, u=typical uncertainty, k=coefficient for one tail test & k=1,645, LL = lower limit value and Lu upper limit value as referred in legislation

Parameter	Decision rule	Expanded uncertainty U	Values where U is applied	Compliance with decision rules when values:
Thyme honey (%)	$x>L_L + k\cdot u$ $L_L=18\%$	1,1	<18%	≥18,9
		1,5	18-65%	≥19,2
Diastase number DN	$x>L_L + k\cdot u$ $L_L=8$	1,0	8-12	≥8,8
		1,0	>12	≥8,8
HMF	$x<L_U - k\cdot u$ $L_U=40$	3,9	>30	≤36,8

According to HELLASCHEM decision rule for the declaration of compliance with legislation, the honey is characterized as "thymus honey"

	Parameters	Results	RL	Legislation Limits	Method code	Methods
1	Amitraz, mg/kg	<0,010	0,010	-	M16/F1Y13/OS	HPLC-UV
2	DMF, mg amitraz /kg	<0,010	0,010	-	M16/F1Y13/OS	
3	DMPF, mg amitraz /kg	<0,010	0,010	-	M16/F1Y13/OS	
4	Amitraz total, mg/kg	<0,010	--	<0,2(3)	M16/F1Y13/OS	As sum

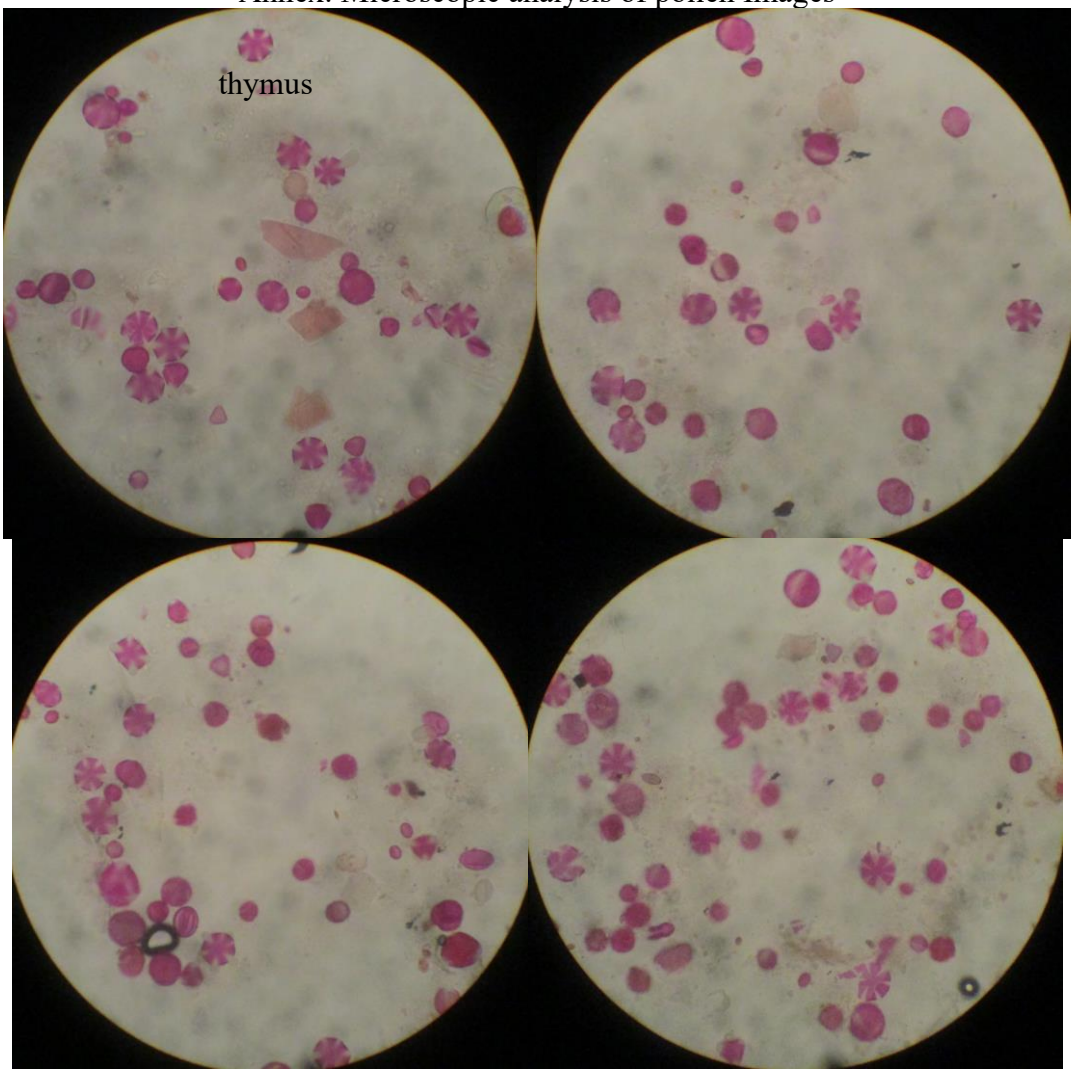
Table 1: Pollen analysis

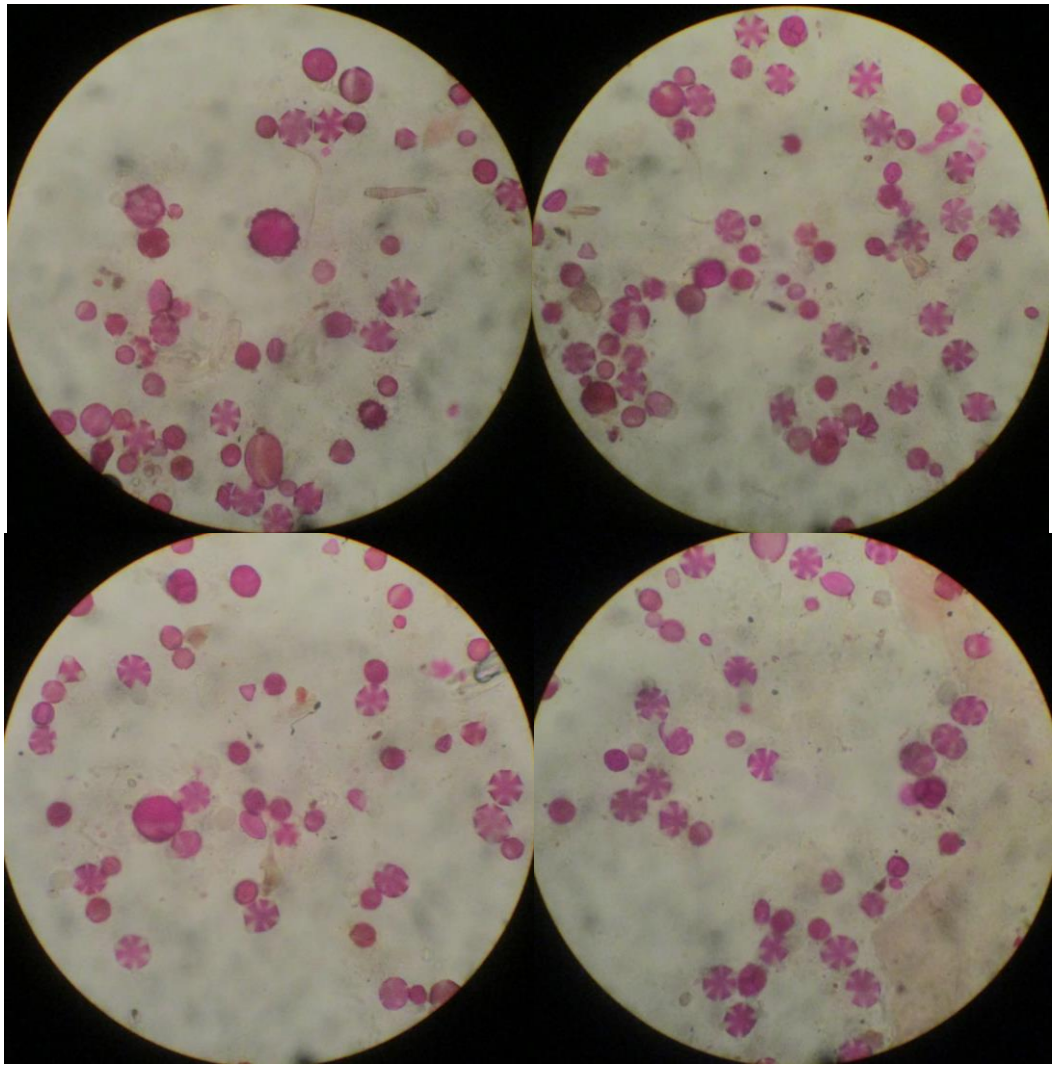
Number of pollen (per 10g of honey)	44600
Dominated pollen (% of nectariferous)	Thymus honey 41,8%
Dominated pollen (% of nectariferous & nectarless pollen)	Thymus honey 37,4%
Nectariferous pollen analysis:	

Thymus	41,8
Acanthaceae	2,0
Asteraceae	3,9

Brassicaceae	2,2
Ericaceae	16,6
Fabaceae -leguminosae	20,7
Liliaceae	2,9
Myrtaceae	6,7
Rosaceae	3,2

Annex: Microscopic analysis of pollen Images





Certified by
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