

Certificate of Analysis

Product name: Olive oil, natural leak
Number of analysis: ACG-2020110024
Batch number / 2020-Karakurt /4800 L
Volume:
Producer ACGPUBS
Analysed according to: PH.EUR 9.5 and in house phenolic measurements

Tests	Requirement	Result	Unit	Standard remark
Appearance	Clear, colourless or greenish-yellow transparent liquid	Conform		
Identification A	Conform	Conform		Acid value
Identification B	Conform	Conform		TLC
Identification C	Conform	Conform		Composition of fatty acids; DP
Relative density	0,913	0,908		20°C; DP
Refractive index	About 1,4691	1,46838		20°C
Specific absorbance	<= 1,20	0,70		270nm; DP
Acid value	<= 0,3	0,3	mg KOH/g	
Peroxide value	<= 10,0	0,6	meq O ₂ /kg	
Unsaponifiable matter	<= 1,5	<= 1,5	%	DP
Alkaline impurities	Conform	Conform		DP
Composition of fatty acids	Conform	Conform		GC; DP
Saturated fatty acids of chain length less than C16	<= 0,1	< 0,05	%	
Palmitic acid	7,5 - 20,0	12,1	%	
Palmitoleic acid	<= 3,5	1,0	%	
Stearic acid	0,5 - 5,0	3,1	%	
Oleic acid and isomers	56,0 - 85,0	74,2	%	
Linoleic acid	3,5 - 20,0	7,4	%	
Linolenic acid	<= 1,2	0,6	%	
Arachidic acid	<= 0,7	0,4	%	
Eicosenoic acid	<= 0,4	0,3	%	
Behenic acid	<= 0,2	0,1	%	
Lignoceric acid	<= 0,2	0,1	%	
Sterols composition	Conform	Conform		DP
Cholesterol	<= 0,5	0,1	%	
Campesterol	<= 4,0	3,1	%	
Δ7-Stigmastenol	<= 0,5	0,3	%	
β-Sitosterol (sum)	>= 93,0	94,7	%	
Stigmasterol	<= Campesterol	1,2	%	
Water	<= 0,1	0,01	%	DP
PHENOLICS	No declaration			
Epigallocatechin	No declaration	0,04	ppm	
Oleuropein	No declaration	<0,01	ppm	
Quercetin	No declaration	7,2	ppm	
Oleocanthal	No declaration	0,02	ppm	
luteolin	No declaration	2,17	ppm	
Apigenin	No declaration	1,14	ppm	
Hispidilin	No declaration	1,34	ppm	
Chyrisin	No declaration	0,01	ppm	

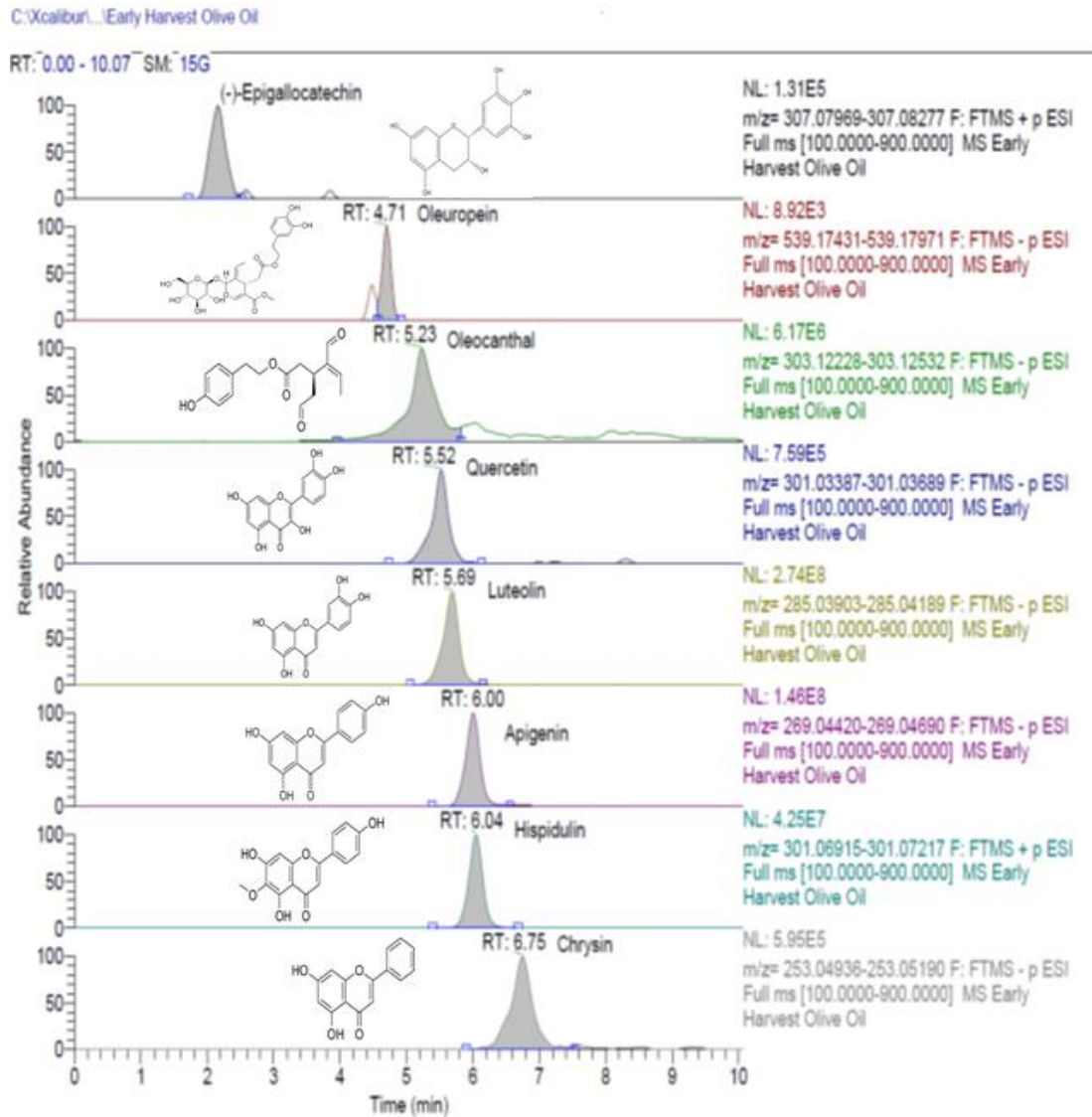


Figure: Major quantified antioxidant compounds in ACGPUBS olive oil

Measurements performed by ACGPUBS.

Release:

Prof. Dr. Ahmet C Goren

ORCID ID  <https://orcid.org/0000-0002-5470-130X>

30/11/2020

Expire Date of Certificate Data: 30-11-2021 (keep from the light and high

temperature) Decision: APPROVED