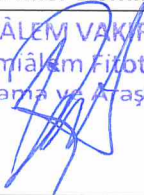



CUSTOMER INFORMATION		
Name	Onur ÇELİK	
Address	Goya Bitkisel Ürünler Ltd. Şti İstiklal Cad. No:21 Gökova Ula/Muğla	
Contact	+90 252 246 6161 - +90 533 211 9982	
e-Mail	onurcelik@goyabotanicals.com	
SAMPLE INFORMATION		
Sample	Oregano (<i>Oreganum vulgare</i>) Hydrosol	
Batch No	2019	
Delivery Date	Analysis Date	Report Date
22.01.2020	22.01.2020	23.01.2020
ANALYSIS METHOD		
METHOD Essential oils are analyzed by GC-MS/FID system.		
SAMPLE PREPARATION 5% solution of essential oil in n-hexane		
GC-FID CONDITIONS System: Agilent 7890B GC Column: Agilent DB-WAX (60m x 0,25mm x 0,25 µm) Detector: FID (Flame Ionisation Detector) Injection Temperature: 220°C Detector Temperature: 220°C Temperature Programme: 70°C(15 min), 2°C/min → 180°C (5 min), 5°C/min → 230°C (15 min), Total 100 min Carrier Gas: 1,5 mL/min He Injection Volume: 1 µL Split Ratio: 50:1 FID Hydrogen: 30 mL/min FID Air: 400 mL/min		
GC-MS CONDITIONS System: 5977E Ion Source Temperature: 230°C Ionisation Mode: EI Electron Energy: 70 eV Membrane Temperature: 250°C Quadrupole Temperature: 150°C Scan Rate: 35-450 m/z Identification: Wiley 9-NIST 11 Mass Spectral Database		

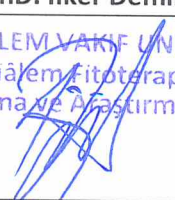
Analyzed by	Approved by
PhD. İlker Demirbolat	Prof.Dr. Murat Kartal
BEZMİÂLEM VAKIF ÜNİVERSİTESİ Bezmialem Fitoterapi Eğitim Uygulama ve Araştırma Merkezi 	BEZMİÂLEM VAKIF ÜNİVERSİTESİ Bezmialem Fitoterapi Eğitim Uygulama ve Araştırma Merkezi 

RESULTS

Essential Oil Composition of the Hydrosol

Goya Oregano (<i>Oreganum vulgare</i>) Hydrosol Batch No:2019	
Compound	Amount
Terpinene-4-ol	0,210
Alpha Terpineol	0,060
Borneol	0,142
Thymol	23,699
Carvacrol	75,784
Compounds Under %0,1	0,106

Essential oil composition is similar with oregano (*Oreganum vulgare*) hydrosol.
Ethyl alcohol and preservatives are not detected.

Analyzed by	Approved by
PhD. İlker Demirbolat	Prof.Dr. Murat Kartal
<p>ZMİÂLEM VAKIF ÜNİVERSİTESİ Bezmiâlem Fitoterapi Eğitim Uygulama ve Araştırma Merkezi</p> 	<p>ZMİÂLEM VAKIF ÜNİVERSİTESİ Bezmiâlem Fitoterapi Eğitim Uygulama ve Araştırma Merkezi</p> 