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GC/MS ANALYSIS REPORT

Customer Information	
Customer	Ramazan ASLAN
Address	Arsnewton Gıda Turizm İthalat İhracat Sanayi ve Ticaret Ltd. Sti. Saraylar Mahallesi 2. Ticari Yol Caddesi Finansbank Sitesi No:64A Merkezefendi/DENİZLİ
Report Address	Arsnewton Gıda Turizm İthalat İhracat Sanayi ve Ticaret Ltd. Sti. Saraylar Mahallesi 2. Ticari Yol Caddesi Finansbank Sitesi No:64A Merkezefendi/DENİZLİ
Tax Office and No	Saraylar V.D. 0851417257
Telephone	0 544 566 48 48
E-Mail	ramazanaslan2007@icloud.com

Sample Information				
Sample	Wood vinegar			
Barcode No	**Sample Code**	**Registration Date**	**Analysis Date**	**Report Date**
GC-202501407	Wood winegar	20.03.2024	21.03.2025	07.04.2025

PROCEDURE

The sample was subjected to GC/MS analysis for identification and relative quantification of the compounds. Gas chromatography-mass spectrometer was used for identification while gas chromatography-FID was used for relative quantification of the compounds.

Sample preparation

The sample was subjected to microdistillation, 1µL of the obtained ditillate was injected to the system in splitless mode

Gas chromatographic (GC) conditions

System: Agilent 7890B GC System
Column: Agilent HP-Innowax (60 m x 0.25 mm i.d. x 0.25 µm film thickness)
Detector: Flame Ionization Detector (FID)
Injection temperature: 250°C
Detector temperature: 250°C
Temperature program: 60°C (10 min), 4°C/min. 220°C (10 min) 1°C/min 240°C (20 min.), Total 100 min
Carrier gas: Helium (0.7 mL/min)

Gas chromatographic-Mass spectrometric (GC/MS) conditions

Sytem: Agilent 7890B GC 5977B Mass Selective Dedector System
Column: Agilent HP-Innowax (60 m, 0.25 mm i.d., 0.25 µm film thickness)
Injection temperature: 250°C
Ion source temperature: 230°C
Ionization mode: EI
Electron energy: 70 ev
Mass range: 35- 450 *m/z*
Temperature program: 60°C (10 min), 4°C/min. 220°C (10 min) 1°C/min 240°C (20 min.), Total 100 min
Carrier gas: Helium (0.7 mL/min)
Identification of compounds: Wiley 9-Nist 11 Mass Spectral Database

Working Manager	**Responsible of Quality Management**	**Analyst**
Prof. Dr. Temel ÖZEK	**Assoc. Prof. Dr. Ulviye ACAR ÇEVİK**	**Şenay ESER (*MSc*)**

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RESULTS

Volatile Composition of the

Wood Vinegar Sample (GC-202501407)

No	Compound*	Relative percentage (%)
1	Cyclopentanone	1.6
2	1-Hydroxy-2-propanone	12.1
3	2-Cyclopentenone	3.7
4	2-Methyl-2-cyclopentenone	2.3
5	1-Hydroxy-2-butanone	2.3
6	Acetic acid	22.5
7	Furfural	6.5
8	Propanoic acid	7.0
9	2,3-Dimethyl-2-cyclopentenone	1.3
10	5 Methyl furfural	1.6
11	Butyric acid	1.6
12	α-Terpineol	2.3
13	Corylone	1.4
14	2-Methoxy-phenol (=*o-Guaiacol*)	3.9
15	2-Methoxy-4-methylphenol (=*Creosol*)	3.5
16	*o*-Cresol	1.0
17	Phenol	1.8
	Total	74.6

* ≥ % 1

REMARKS

- Analysis results comprise only for samples which are delivered to AUBIBAM laboratories.
- Our center is not responsible from source of the samples, sampling and handling of the samples until samples reached to our laboratories
- Results of the tests and analysis reports are not a quality certificate of the whole products.
- In case of using the results for any kind of publications or presentations (thesis, manuscript, report, poster, oral etc.) it should be mentioned that this analysis was done by Anadolu University, Medicinal Plant, Drug and Scientific Research and Application Center (AUBIBAM).
- The results of the analysis, the institution engaged in the analysis, laboratory, and the names of the undersigned, the product visuals cannot be used for advertising and promotion purposses in written, visual, audial or digital form.

Working Manager	Responsible of Quality Management	Analyst
Prof. Dr. Temel ÖZEK	**Assoc. Prof. Dr. Ulviye ACAR ÇEVİK**	**Şenay ESER (*MSc*)**