



REPUBLIC OF TURKEY  
AFYONKARAHİSAR GOVERNORATE  
PROVINCIAL DIRECTORATE OF HEALTH  
AFYONKARAHİSAR PUBLIC HEALTH LABORATORY

## ANALYSIS REPORT

## T.C. Sağlık Bakanlığı

Date and Number of the related Letter	29.032018 / 414	AB-1276-T
Date/Time of Sampling	29.032018 / 11:00	
Date/Time of arrival of sample at PHL	29.03.2018 / 14:29	2018-505-1
Protocol No / Sample Barcode No	2018-505- 1 / 2893908	
CSBYS No	79961	24.04.2018

Person/Institution/Organization Sending the Sample	AFYONKARAHİSAR PROVINCIAL DIRECTORATE OF HEALTH			
Sample Received at the Address	Gazlıgöl Kasabası İhsaniye/AFYONKARAHİSAR			
Sample Monitoring Point	Kocatepe (1)			
Reason for Arrival of Sample	INSPECTION TRACKING	*CHEMICAL AND MICROBIOLOGICAL ANALYSES		
Date - Time of Dispatch of the Sample to the lab./ Received for	29.032018 – 14:46	Water filling station		
Sample Group	WATER ANALYSES			
Type / Name / Brand of Sample /Name of Manufacturer	NATURAL MINERAL WATER	SUPERVISORY MONITORING AND INSPECTION	NATURAL MINERAL WATER KIZILAY	---
Packing Shape / Labeling / Quantity of Sample	Sterile Plastic Bottle - Plastic Bottle	LABELLED	8*1+5 L	
Date / Expiry Date / Batch No. / Serial No. of Sample	---	---	---	---
Seal Status / Date / No of Report-Contract	SEALED	---	---	---
Person/Institution/Organization to be Invoiced	KIZILAY (AFYONKARAHİSAR) TÜRK KIZILAYI GAZLIGÖL MEVKİİ İHSANİYE AFYON			
Date and No of Receipt / Date and No of Voucher	---	29.03.2018-616868-		
Date - No of Declaration / Date - No. of Import Pre. Permit				
Situation of Sample	Analyzable			
Sample Information	---	---		
Start / End Date of Analysis	29.03.2018 15:08	24.04.2018 16:33		
Reporting Date	24.04.2018 16:33			

## CHEMICAL ANALYSES

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Carbonate	mg/L	TITRIMETRIC			0
Total Cyanide (Photometric)	mg/L	Photometric (Ready-to-use Kit)		0.07	<0,01
Silicate	mg/L	EPA Method 6020 A	0.6		49.78
*Phosphate	mg/L	TS EN ISO 10304-1	0.5		It could not Been Detected
Amount of Oxygen Consumed for Organic Matter	mg/L			5	1.3

## MICROBIOLOGICAL ANALYSES

Studied Analyses	Unit	Method	Limit of Legislation	Analysis Result
Salmonella Spp.	kob/L	TS EN ISO 19250	0	NOT DETECTED
*Escherichia coli	Cfu/250mL	TS EN ISO 9308-1	0	0

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MICROBIOLOGICAL ANALYSES					
Studied Analyses	Unit	Method		Limit of Legislation	Analysis Result
*Coliform Bacteria	Cfu/250mL	TS EN ISO 9308-1		0	0
*Enterococcus / Fecal Streptococcus	Cfu/250mL	TS EN ISO 7899-2		0	0
*Total Germ Count at 37°C	cfu/mL	TS EN ISO 6222		20	1
*Total Germ Count at 22°C	cfu/mL	TS EN ISO 6222		100	0
*Pseudomonas aeruginosa	Cfu/250mL	TS EN ISO 16266		0	0
*Anaerobic Sulfite-Reducing Spore-Forming Bacteria	Cfu/50mL	TS 8020 EN 26461-2		0	0
Parasite	/5 L	European Pharmacopoeia Reaction		0	0
Pathogen Staphylococcus	kob/100mL	AFNOR, XP T 90-412		0	0

CHEMICAL ANALYSES					
Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Bicarbonate	mg/L	TITRIMETRIC			1942.8
*Bromate	µg/L	TS EN ISO 15061	0.6	3	It could not Been Detected
*Sulphate	mg/L	TSEN ISO 10304-1	0.5		8.85
*Chloride	mg/L	TSEN ISO 10304-1	0.5		115.01
*Nitrate	mg/L	TSEN ISO 10304-1	0.5	50	2.61
*Fluoride	mg/L	TSEN ISO 10304-1	0.05	5	0.6
*Nitrite	mg/L	TSEN ISO 10304-1	0.05	0.1	It could not Been Detected
Taste (Physical)		Physical		IT MUST BE PERFECT	APPROPRIATE
Color (Physical)		Physical		IT MUST BE PERFECT	APPROPRIATE
Odor (Physical)		Physical		IT MUST BE PERFECT	APPROPRIATE
Turbidity (Physical)		Physical		IT MUST BE PERFECT	APPROPRIATE
*Potassium	mg/L	EPA Method 6020 A	1		15.12
*Magnesium	mg/L	EPA Method 6020 A	1		9.17
*Calcium	mg/L	EPA Method 6020 A	1		43.80
*Barium	mg/L	EPA Method 6020 A	0.001	1	0.055

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AFYONKARAHİSAR PUBLIC HEALTH LABORATORY ALİ ÇETİNKAYA MAH. ATATÜRK CAD. NO: 32/7 AFYONKARAHİSAR  
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**CHEMICAL ANALYSES**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
*Sodium	mg/L	EPA Method 6020 A	1		477.30
*Manganese	mg/L	EPA Method 6020 A	0.001	0.5	0.034
*Iron	mg/L	EPA Method 6020 A	0.01		It could not Been Detected
*Nickel	mg/L	EPA Method 6020 A	0.001	0.02	It could not Been Detected
*Mercury	mg/L	EPA Method 6020 A	0.0001	0.001	It could not Been Detected
*Lead	mg/L	EPA Method 6020 A	0.0025	0.01	It could not Been Detected
* Aluminum	mg/L	EPA Method 6020 A	0.01		<0,01
*Selenium	mg/L	EPA Method 6020 A	0.001	0.01	It could not Been Detected
*Copper	mg/L	EPA Method 6020 A	0.1	1	It could not Been Detected
*Chromium	mg/L	EPA Method 6020 A	0.001	0.05	It could not Been Detected
*Cadmium	mg/L	EPA Method 6020 A	0.001	0.003	It could not Been Detected
* Arsenic	mg/L	EPA Method 6020 A	0.001	0.01	0.005
*Antimon	mg/L	EPA Method 6020 A	0.001	0.005	It could not Been Detected
Borate	mg/L	EPA Method 6020 A	0.4	30	23.02
Sulphur	mg/L	Ready-to-use kit			0.07
*Ammonium	mg/L	TSENISO 14911	0.2		It could not Been Detected

**Organochlorine ones**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Total DDT (op-DDT. pp-DDT. pp-DDD. pp-DDE)	mg/L	EPA 508	0.0001	0.0001	It could not Been Detected
Beta- Endosulfan	mg/L	EPA 508	0.00004	0.0001	It could not Been Detected
Alfa-Endosulfan	mg/L	EPA 508	0.00004	0.0001	It could not Been Detected
Dieldrin	mg/L	EPA 508	0.00002	0.0001	It could not Been Detected

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**Organochlorine ones**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Aldrin	mg/L	EPA 508	0.00003	0.0001	It could not Been Detected
Heptachlor epoxide(Endo)	mg/L	EPA 508	0.00002	0.0001	It could not Been Detected
Heptachlor	mg/L	EPA 508	0.00002	0.0001	It could not Been Detected
Gamma - HCH (Lindane)	mg/L	EPA 508	0.00004	0.0001	It could not Been Detected
Alfa- HCH (BHC)	mg/L	EPA 508	0.00004	0.0001	It could not Been Detected
HCB	mg/L	EPA 508	0.00005	0.0001	It could not Been Detected

**Organophosphorous ones**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Methamidophos	mg/L	Internal Method	0.00005	0.0001	It could not Been Detected
Ethion	mg/L	Internal Method	0.00004	0.0001	It could not Been Detected
Diazinon	mg/L	Internal Method	0.00003	0.0001	It could not Been Detected
Azinphos-ethyl	mg/L	Internal Method	0.00004	0.0001	It could not Been Detected

**Herbicides**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Atrazine	mg/L	Internal Method	0.00003	0.0001	It could not Been Detected

**Fungicides**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Metalaxyl	mg/L	Device Application (GC-MS)	0.00003	0.0001	It could not Been Detected

**Carbamates**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Propoxur	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Oxamyl	mg/L	Laboratory Method	0.00004	0.0001	It could not Been Detected

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**Carbamates**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Methomyl	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Methiocarb	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Carbofuran-3-hydroxy	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Carbofuran	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Carbaryl	mg/L	Laboratory Method	0.00003	0.0001	It could not Been Detected
Aldicarb-sulfoxide	mg/L	Laboratory Method	0.00004	0.0001	It could not Been Detected
Aldicarb-sulfone	mg/L	Laboratory Method	0.00004	0.0001	It could not Been Detected
Aldicarb	mg/L	Laboratory Method	0.00005	0.0001	It could not Been Detected

**Polycyclic Aromatic Hydrocarbons**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Total PAH	mg/L	Internal Method		0-0,2	It could not Been Detected
Indeno (1.2.3 -cd) pyrene	mg/L	Internal Method	0.000025	0.0002	It could not Been Detected
Benzo (ghi) perylene	mg/L	Internal Method	0.000025	0.0002	It could not Been Detected
Benzo (k) fluoranthene	mg/L	Internal Method	0.00003	0.0002	It could not Been Detected
Benzo (b) fluoranthene	mg/L	Internal Method	0.000025	0.0002	It could not Been Detected
Benzo (a) pyrene	mg/L	Internal Method	0.00001	0.0002	It could not Been Detected

**Volatile Organic Compounds**

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Bromoform	µg/L	TS 9266 EN ISO 10301	0.00005	1	It could not Been Detected

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Evaluation: The results are in accordance with the Regulation on Natural Mineral Waters published in the Official Gazette dated 01.12.2004 and numbered 25657 in terms of analyzes studied.

Based on the amendments published in the Official Gazette dated 20.10.2016 and numbered 29863, there is no maximum limit value for the total colony numbers (germ) but the guidance values.

**Remarks:**

The results are evaluated according to the Regulation on Natural Mineral Waters published in the Official Gazette dated 01.12.2004 and numbered 25657 in terms of analyzes studied.

- Results of the analysis written as bold are out of limits of the relevant legislation.
  - The sample has not been taken by us and has been accepted in accordance with Sample Acceptance Criteria Directive of AFYONKARAHİSAR PUBLIC HEALTH LABORATORY.
  - The results and opinions of this report are valid for the specimens specified above and the specimens tested. No part of this report may be used solely or in part and reproduced without the written consent of AFYONKARAHİSAR PUBLIC HEALTH LABORATORY. Reports are invalid without signature. Sample analysis reports produced upon custom request cannot be used for judicial and administrative proceedings and for advertising purposes.
  - Expanded measurement uncertainties shall be specified upon customer request or when it is considered necessary as per legal regulations.
  - TKEDY: can be acceptable by the consumers and there are no abnormal changes.
  - kob (cfu): The unit forming the column (colony forming unit)
- Experiments marked with “\*” is within the context of accreditation.

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Laboratory

**BURKAY KABLAN**

Biologist

Unit Supervisor for Water Microbiological Laboratory

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