



T.C. Sağlık Bakanlığı

REPUBLIC OF TURKEY  
GOVERNORSHIP OF SAMSUN  
PROVINCIAL DIRECTORATE OF HEALTH  
SAMSUN PUBLIC HEALTH LABORATORY

ANALYSIS REPORT

1 / 6



Date and Number of the related Letter	30.11.2017 / 2544
Date/Time of Sampling	30.11.2017 / 09:45
Date/Time of arrival of sample at PHL	30.11.2017 / 15:46
Protocol No / Sample Barcode No	2017-2862 - 1 / 2713194
CSBYS No	74814

AB-0834-T
2017-2862-1
28.03.2018

Person/Institution/Organization Sending the Sample	ERZİNCAN PROVINCIAL DIRECTORATE OF HEALTH			
Sample Received at the Address	FATİH MAH.ERZURUM CAD. NO:91 AKYAZI BELDESİ ERZİNCAN			
Sample Monitoring Point	WATER FILLING STATION OF TÜRK KIZILAYI ERZİNCAN MİNERALLİ SU			
Reason for Arrival of Sample	INSPECTION	*CHEMICAL AND MICROBIOLOGICAL ANALYSES		
Date - Time of Dispatch of the Sample to the lab./	30.11.2017 - 15:53	Water		
Sample Group	WATER			
Type / Name / Brand of Sample /Name of Manufacturer	NATURAL MINERAL WATER	---	---	TÜRK KIZILAYI ERZİNCAN MİNERALLİ SU İŞLETMESİ
Packing Shape / Labeling / Quantity of Sample	Original Package Glass	LABELLED	200ccx48	
Date / Expiry Date / Batch No. / Serial No. of Sample	30.11.2017	30.11.2018	PN01	0939
Seal Status / Date / No of Report-Contract	SEALED	---	---	---
Person/Institution/Organization to be Invoiced	TÜRK KIZILAYI ERZİNCAN MİNERALLİ SU İŞLETMESİ			
Date and No of Receipt / Date and No of Voucher	---	---		
Date - No of Declaration / Date - No. of Import Pre.				
Situation of Sample	Analyzable			
Sample Information	---	---		
Start / End Date of Analysis	30.11.2017 15:58		28.03.2018 00:00	
Reporting Date	28.03.2018 00:00			

CHEMICAL ANALYSES

Studied Analyses	Unit	Method	Limit of Quantification	Limit of Legislation	Analysis Result
Carbonate	mg/L	TITRIMETRIC			0
*Phosphate	mg/L	TS EN ISO 10304-1			0.58

MICROBIOLOGICAL ANALYSES

Studied Analyses	Unit	Method	Limit of Legislation	Analysis Result
Parasite	/5L	Laboratory Method	0	0
Salmonella Spp.	/250 ml	TS EN ISO 19250	NOT DETECTED	0
*Escherichia coli	Cfu/250mL	TS EN ISO 9308-1	0	0
*Coliform Bacteria	Cfu/250mL	TS EN ISO 9308-1	0	0
*Enterococcus / Fecal Streptococcus	Cfu/250mL	TS EN ISO 7899-2	0	0

F81/SHSL/02

Date of Edition of

16.04.2018

Address: Adalet Mahallesi Mevlana Cad. No:66 55070 İlkadım / SAMSUN Tel:03622348950 Fax:

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**MICROBIOLOGICAL ANALYSES**

Studied Analyses	Unit	Method	Limit of Legislation	Analysis Result
*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	< 1
*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
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			1250
Oxidizability	mg/L	TITRIMETRIC		5	1.2
Cyanide	mg/L	Spektrophotometric		0.07	0
*Chloride	mg/L	TSEN ISO 10304-1			162
*Sulphate	mg/L	TSEN ISO 10304-1			1.53
*Nitrate	mg/L	TSEN ISO 10304-1		50	2.62
*Fluoride	mg/L	TSEN ISO 10304-1		5	0.17
Nitrite	mg/L	TSEN ISO 10304-1		0.1	0.029
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
Borate	mg/L	EPA 200.8		0 - 30	4.70
* Aluminum	µg/L	EPA 200.8		0 - 200	< 3
* Arsenic	mg/L	EPA 200.8		0 - 0.01	< 0.003
* Barium	mg/L	EPA 200.8		1	< 0.003
*Manganese	mg/L	EPA 200.8		0 - 0.5	0.066
*Iron	mg/L	EPA 200.8			< 0.003
*Nickel	mg/L	EPA 200.8		0.02	< 0.003

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**CHEMICAL ANALYSES**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
*Mercury	mg/L	EPA 200.8		0.001	< 0.00015
*Lead	mg/L	EPA 200.8		0.01	< 0.003
*Selenium	mg/L	EPA 200.8		0.01	< 0.003
*Copper	mg/L	EPA 200.8		0 - 1	< 0.003
*Chromium	mg/L	EPA 200.8		0.05	< 0.003
*Cadmium	mg/L	EPA 200.8		0.003	< 0.003
*Antimon	mg/L	EPA 200.8		0 - 0.005	< 0.003
Ammonium	mg/L	TS EN ISO 14911			< 0.10
Potassium	mg/L	TS EN ISO 14911			0.37
Magnesium	mg/L	TS EN ISO 14911			291
Calcium	mg/L	TS EN ISO 14911			22.9
Sodium	mg/L	TS EN ISO 14911			10.8
Sulphur	mg/L	Spektrophotometric		0	0

**Organochlorine ones**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Total DDT (op-DDT. pp-DDT. pp-DDD. pp-DDE)	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Beta- Endosulfan	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Alfa-Endosulfan	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Dieldrin	µg/L	Device Application (GC-MS)		0 - 0.03	< 0.01
Aldrin	µg/L	Device Application (GC-MS)		0 - 0.03	< 0.01
Heptachlor epoxide(Endo)	µg/L	Device Application (GC-MS)		0 - 0.03	< 0.01
Heptachlor	µg/L	Device Application (GC-MS)		0 - 0.03	< 0.01
Gamma - HCH (Lindane)	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Alfa- HCH (BHC)	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
HCB	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01

**Organophosphorous ones**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
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**Organophosphorous ones**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Chlorpyrifos-methyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Chlorpyrifos-ethyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Methamidophos	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Parathion-methyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Parathion-ethyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Malathion	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Ethion	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Disulfoton	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Diazinon	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Azinphos-ethyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Azinphos-methyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Demethon(O+S)	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01

**Herbicides**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Simazine	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Atrazine	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01

**Fungicides**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Metalaxyl	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Tebuconazole	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01
Diniconazole	µg/L	Device Application (GC-MS)		0 - 0.1	< 0.01

**Carbamates**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Propoxur	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Oxamyl	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
1-Naphtol	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001

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**Carbamates**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Methomyl	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Methiocarb	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Carbofuran-3-hydroxy	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Carbofuran	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Carbaryl	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Aldicarb-sulfoxide	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Aldicarb-sulfone	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001
Aldicarb	mg/L	Device Application (LC-MS/MS)		0.1	< 0.0001

**Polycyclic Aromatic Hydrocarbons**

Studied Analyses	Unit	Method	Limit of Quantification (LOQ)	Limit of Legislation	Analysis Result
Benzo (a) pyrene	mg/L	Device Application (UFLC)			< 0.0002
Fluoranthene	mg/L	Device Application (UFLC)			< 0.0002
Indeno (1.2.3 -cd) pyrene	mg/L	Device Application (UFLC)			< 0.0002
Benzo (ghi) perylene	mg/L	Device Application (UFLC)			< 0.0002
Benzo (k) fluoranthene	mg/L	Device Application (UFLC)			< 0.0002
Benzo (b) fluoranthene	mg/L	Device Application (UFLC)			< 0.0002



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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.

**Rev. No/Remarks:** It has been determined that Magnesium and Calcium parameter values are incorrectly entered in the report dd. 26.12.2017 and no. 2017-2862-1. In this respect, the former report was canceled and a new report no. 2017-2862-1 and dated 28.03.2018 was prepared with the necessary corrections.

**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 SAMSUN 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 SAMSUN 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)  
 \*Tests marked with "\*" is within the context of accreditation.

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**SEZGİN ŞENEL**  
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