



HELLENIC REPUBLIC
MINISTRY OF FINANCE
GENERAL SECRETARIAT OF PUBLIC REVENUE
GENERAL CHEMICAL STATE LABORATORY
CHEMICAL SERVICE OF EPIRUS & W. MACEDONIA
SECTION: A'
Address: Doboli 30
Contact Person: G. Vagenas
Tel.: 2651085002
e-mail: epirus@gcsl.gr

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Date: 14-09-2015
Our ref: 30/043/000/1241/19-06-2015

To: CHITOS S.A. BOTTLING

TEST REPORT

Sending Authority: CHITOS S.A. BOTTLING Co
Sending Authority Reference No – Date: -
Sampling Authority: Chemical Service of Epirus & W.
Macedonia
Date of arrival: 19-06-2015

GCSL Sample No: 043/000/2375/2015

Type of material: Source water
Detailed description of material: Natural mineral water, destined for bottling
"KARAKORI PERIVLEPTOY"
Sampling Authority Reference no – Date: 66/2015
Sample Packaging: Glass bottle 1L & Plastic bottle 1,5 L
Product labelling: -
Sample integrity: -
Sample condition upon arrival: Excellent
Date of analysis: From: 03-07-2015 To: 14-08-2015

TEST RESULTS

Parameter considered	Test method	Result	Uncertainty	Maximum Residue level (MRL)	Name of Analyst
pH (25°C)	43MEΘΠEP 004	7,3	±0,1	-	K. Bazakas
Conductivity (20°C)	43MEΘΠEP 003	344 µS/cm	±36	-	K. Bazakas
Chloride (Cl ⁻)	43MEΘΠEP 005	4,29 mg/L	±4,54%	-	K. Bazakas
Sulfate (SO ₄ ⁻)	43MEΘΠEP 005	8,51 mg/L	±7,34%	-	K. Bazakas
Nitrate (NO ₃)	43MEΘΠEP 005	7,41 mg/L	±7,32%	50	K. Bazakas
Nitrite (NO ₂)	Spectrophotometry	<L.O.Q. (0,006mg/L)	-	0,1	K. Bazakas
Ammonium (NH ₄ ⁺)	Spectrophotometry	<L.O.Q.(0,013 mg/L)	-	-	K. Bazakas
Calcium (Ca ²⁺)	43MEΘΠEP 005	75,6 mg/L	±3,14%	-	K. Bazakas
Magnesium (Mg ²⁺)	43MEΘΠEP 005	3,00 mg/L	±4,7%	-	K. Bazakas
Potassium (K ⁺)	43MEΘΠEP 005	0,94 mg/L	±9,2%	-	K. Bazakas
Sodium (Na ⁺)	43MEΘΠEP 005	2,51 mg/L	±9,72%	-	K. Bazakas
Total hardness	Titration	201,1 mg CaCO ₃ /L	-	-	K. Bazakas
Solid residue at 180°C	Gravimetric	215 mg/L	-	-	K. Bazakas
Solid residue at 260°C	Gravimetric	215 mg/L	-	-	K. Bazakas
Fluoride (F ⁻)	43MEΘΠEP 005	0,10 mg/L	±8,26%	5	K. Bazakas
Bromide (Br ⁻)	Ion Chromatography	<L.O.Q. (0,05 mg/L)	-	-	K. Bazakas



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Parameter considered	Test method	Result	Uncertainty	Maximum Residue level (MRL)	Name of Analyst
Iodine (I ⁻)	Ion Chromatography	<L.O.Q. (0,01 mg/L)	-	-	K. Bazakas
Carbonate	Titration	Not detected	-	-	K. Bazakas
Cyanides	Spectrophotometry	<L.O.Q. (0,002 mg/L)	-	0,05	K. Bazakas
Hydrogen carbonate (HCO ₃ ⁻)	Titration	244 mg/L	-	-	K. Bazakas
Mercury (Hg)	43MEΘTPΦ 006 (HG-AAS)	<L.O.Q. (0,09 µg/L)	-	1,0	E. Palaiologos
Arsenic (As)	(GF-AAS)	<L.O.Q. (2,0 µg/L)	-	10	E. Palaiologos
Manganese (Mn)	43MEΘTPΦ005 (GF-AAS)	<L.O.Q. (0,48 µg/L)	-	500	E. Palaiologos
Cadmium (Cd)	43MEΘTPΦ005 (GF-AAS)	<L.O.Q. (0,09 µg/L)	-	3	E. Palaiologos
Lead (Pb)	43MEΘTPΦ005 (GF-AAS)	<L.O.Q. (0,74 µg/L)	-	10	E. Palaiologos
Nickel (Ni)	43MEΘTPΦ005 (GF-AAS)	<L.O.Q. (5,0 µg/L)	-	20	E. Palaiologos
Chromium (Cr)	43MEΘTPΦ005 (GF-AAS)	1,8 µg/L	±0,36	50	E. Palaiologos
Copper (Cu)	GF-AAS	<L.O.Q. (1,0 µg/L)	-	1000	E. Palaiologos
Iron (Fe)	GF-AAS	<L.O.Q. (2,0 µg/L)	-	-	E. Palaiologos
Aluminum (Al)	GF-AAS	<L.O.Q. (1,5 µg/L)	-	-	E. Palaiologos
Selenium (Se)	GF-AAS	<L.O.Q. (1,0 µg/L)	-	10	E. Palaiologos
Zinc (Zn)	GF-AAS	<L.O.Q. (6 µg/L)	-	-	E. Palaiologos
Hexavalent Chromium	Spectrophotometry	<L.O.Q. (1,0 µg/L)	-	-	E. Palaiologos
Phosphate	Spectrophotometry	<L.O.Q. (0,11 mg/L)	-	5	K. Bazakas
Turbidity	Spectrophotometry	<L.O.Q. (1 FTU)	-	-	K. Bazakas
Polycyclic Aromatic Hydrocarbons (PAHs)	HPLC-FLD	<L.O.Q. (0,0030 µg/L)	-	0,10	E. Palaiologos-K. Soulti
Anthracene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	E. Palaiologos-K. Soulti
Benzo[a]pyrene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	0,010	E. Palaiologos-K. Soulti
Benzo[b] fluoranthene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	E. Palaiologos-K. Soulti
Benzo[g,h,i] perylene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	E. Palaiologos-K. Soulti
Benzo [k] fluoranthene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	E. Palaiologos-K. Soulti



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Indeno [1,2,3-cd] pyrene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	K. Soulti E. Palaiologos- K. Soulti
Parameter considered	Test method	Result	Uncertainty	Maximum Residue level (MRL)	Name of Analyst
Fluoroanthene	HPLC-FLD	<L.O.Q. (0,0004 µg/L)	-	-	E. Palaiologos- K. Soulti
Vinylchloride	GC-MSD	<L.O.Q. (0,225 µg/L)	-	0,50	P. Kalaouzis
Bromodichloromethane	GC-MSD	<L.O.Q. (0,301 µg/L)	-	*	P. Kalaouzis
Bromoform	GC-MSD	<L.O.Q. (0,282 µg/L)	-	*	P. Kalaouzis
Dibromochloromethane	GC-MSD	<L.O.Q. (0,762 µg/L)	-	*	P. Kalaouzis
Tetrachloroethene & trichloroethene	GC-MSD	<L.O.Q. (0,640 µg/L)	-	10	P. Kalaouzis
Chloroform	GC-MSD	<L.O.Q. (0,278 µg/L)	-	*	P. Kalaouzis
Volatile Aromatic Compounds	GC-MSD	<L.O.Q. (0,283 µg/L)	-	-	P. Kalaouzis
Benzene	GC-MSD	<L.O.Q. (0,283 µg/L)	-	1,0	P. Kalaouzis
Chlorobenzene	GC-MSD	<L.O.Q. (0,170 µg/L)	-	-	P. Kalaouzis
1,2-Dichlorobenzene	GC-MSD	<L.O.Q. (0,190 µg/L)	-	-	P. Kalaouzis
Styrene	GC-MSD	<L.O.Q. (0,180 µg/L)	-	-	P. Kalaouzis
Toluene	GC-MSD	<L.O.Q. (0,140 µg/L)	-	-	P. Kalaouzis
Dichloroethene	GC-MSD	<L.O.Q. (0,200 µg/L)	-	-	P. Kalaouzis
(m+p) Xylene	GC-MSD	<L.O.Q. (0,270 µg/L)	-	-	P. Kalaouzis
Methyl-t-vutyl ether	GC-MSD	<L.O.Q. (0,270 µg/L)	-	-	P. Kalaouzis

Labeling check: -

OPINION (FINAL ASSESSMENT):):"Natural mineral water destined for bottling" sample, in accordance with Joint Ministerial decision 56561/2004 (Official Gazette Sheet 887/B/15.06.2004), PD 433/1983 and Guidance 2009/54/EC regarding the parameters tested.

Notes: *Maximum Residue Level (MRL) of Total Trihalomethanes: 100 µg/L.



Head of Chemical Service

Anastasios Tsogkas

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GENERAL CHEMICAL STATE LABORATORY
FORM TITLE: Test Report

FORM: ENT 00 00 5.10 05/Edition 4/ D34 Sec D / 1-1-2011