



# INSTITUTE OF GEOLOGY & MINERAL EXPLORATION

LEGAL ENTITY OF PRIVATE LAW

SUPERVISED BY THE MINISTRY OF ENVIRONMENT, ENERGY & CLIMATE CHANGE (LAW No. 272/76)  
1, Sp. LOUIS St., ENTRANCE C, OLYMPIC VILLAGE GR 13677 ACHARNAE, GREECE ☎ +302131337000, FAX +302131337015

## DIVISION OF ANALYTICAL LABORATORIES

### QUALITY CONTROL LABORATORY FOR BOTTLED WATER

1, Sp. LOUIS St., ENTRANCE C, OLYMPIC VILLAGE GR 13677 ACHARNAE ☎ +302131337137, FAX +302131337446

Information: Ms. H. Gintoni

Athens 4/11/2011

Reg. No (IGME) 3135/21-10-2011

Reg. No (DANL) 311/21-10-2011

Sample No (DANL) 660

TO : S. MENTEKIDIS SA

GR 50200 Spilia Kozanis

Attn. Mr. S. Mentekidis

Tel. +302463051210, Fax: +302463051356

Sample Description<sup>1</sup>

: Sample of bottled water 'SELI' (Lot. No. L283111343) in a PET bottle of 1,5 l.  
Condition of the sample upon arrival normal.

Sampling

: S. MENTEKIDIS SA

Date of sample receipt

: 21/10/2011

Date of analysis : 21/10-4/11/2011

#### TEST REPORT (SAMPLE CODE: 379/2011)

Parameter	Unit	Result	Parametric values <sup>*</sup>	Standard Method
pH (21 °C)	pH units	7,5	≥ 4,5 and ≤ 9,5	ELOT 658:1983
Conductivity (25 °C)	µS/cm	443	2500	ELOT EN 27888:1993
Calcium, Ca <sup>+2</sup>	mg/l	75,4		ELOT EN ISO 11885:2009
Magnesium, Mg <sup>+2</sup>	mg/l	9,5		ELOT EN ISO 11885:2009
Sodium, Na <sup>+</sup>	mg/l	2,1	200	ELOT EN ISO 11885:2009
Potassium, K <sup>+</sup>	mg/l	0,5	12	ELOT EN ISO 11885:2009
Carbonates, CO <sub>3</sub> <sup>-2</sup>	mg/l	0,0		ELOT EN ISO 9963-1:1996
Bicarbonates, HCO <sub>3</sub> <sup>-</sup>	mg/l	254		ELOT EN ISO 9963-1:1996
Chlorides, Cl <sup>-</sup>	mg/l	<5	250	ISO 9297:1989
Sulfates, SO <sub>4</sub> <sup>-2</sup>	mg/l	23,9	250	ASTM D516:2007
Nitrates, NO <sub>3</sub> <sup>-</sup>	mg/l	4,3	50 (50)	DIN 38405 D9-1:2008
Nitrites, NO <sub>2</sub> <sup>-</sup>	mg/l	<0,1	0,5 (0,1)	ELOT EN 26777:1993
Ammonium, NH <sub>4</sub> <sup>+</sup>	mg/l	<0,1	0,50	DIN 38406-5:1983
Hardness Total	mg/l CaCO <sub>3</sub>	227		Calculation according to ELOT 170:1980
Hardness Carbonate	mg/l CaCO <sub>3</sub>	209		ELOT EN ISO 9963-1:1996
Hardness Non-carbonate	mg/l CaCO <sub>3</sub>	18		Calculation according to ELOT 170:1980 & ELOT EN ISO 9963-1:1996

\*according to the 98/83/EC Directive on the quality of water intended for human consumption (values in brackets are the parametric values according to the 2003/40/EC Directive establishing the list and concentration limits for the constituents of natural mineral waters)

<sup>1</sup> Description and identification of the sample as stated by the customer in the application form.

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Parameter	Unit	Result	Parametric value*	Standard Method
Silica, SiO <sub>2</sub>	mg/l	7,8		ASTM D5673:2003
Iron, Fe	µg/l	<10	200	ELOT EN ISO 11885:2009
Manganese, Mn	µg/l	<5	50 (500)	ASTM D5673:2003
Copper, Cu	µg/l	<5	2000 (1000)	ASTM D5673:2003
Zinc, Zn	µg/l	<5		ASTM D5673:2003
Lead, Pb	µg/l	<5	10 (10)	ASTM D5673:2003
Cadmium, Cd	µg/l	<1	5,0 (3,0)	ASTM D5673:2003
Nickel, Ni	µg/l	<5	20 (20)	ASTM D5673:2003
Chromium, Cr	µg/l	<5	50 (50)	ELOT EN ISO 11885:2009
Barium, Ba	µg/l	8	(1000)	ASTM D5673:2003
Boron, B	µg/l	<10	1000	Internal method based on ASTM D5673:2003
Aluminum, Al	µg/l	<5	200	ASTM D5673:2003
Vanadium, V	µg/l	<5		ASTM D5673:2003
Beryllium, Be	µg/l	<5		ASTM D5673:2003
Silver, Ag	µg/l	<5	10	ASTM D5673:2003
Cobalt, Co	µg/l	<5		ASTM D5673:2003
Arsenic, As	µg/l	<5	10 (10)	ASTM D5673:2003
Antimony, Sb	µg/l	<5	5,0 (5,0)	ASTM D5673:2003
Selenium, Se	µg/l	<5	10 (10)	ASTM D5673:2003
Mercury, Hg	µg/l	<0,5	1,0 (1,0)	Internal method based on ASTM D5673:2003
Oxidizability (KMnO <sub>4</sub> )	mg/l O <sub>2</sub>	0,9	5,0	ELOT 827:1986
Dry Residue (180 °C)	mg/l	260	1500	STANDARD METHODS 148A, 13th ed.
Dry Residue (260 °C)	mg/l	250		STANDARD METHODS 148A, 13th ed.
Phosphorus, P	µg/l P <sub>2</sub> O <sub>5</sub>	<100	5000	Internal method based on ASTM D5673:2003
Fluorides, F <sup>-</sup>	µg/l	<100	1500 (5000)	ELOT 828:1982
Cyanides, CN <sup>-</sup>	µg/l	<10	50 (70)	ELOT 479:1983
Bromides, Br <sup>-</sup>	mg/l	<0,5		ASTM-D1246:2005
Bromates, BrO <sub>3</sub> <sup>-</sup>	µg/l	-	10 (3)	Internal method based on EPA 300.1:1999
Total Organic Carbon (TOC)	µg/l C	850	No abnormal change	ISO 8245:1999

\*according to the 98/83/EC Directive on the quality of water intended for human consumption (values in brackets are the parametric values according to the 2003/40/EC Directive establishing the list and concentration limits for the constituents of natural mineral waters)

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Parameter	Unit	Result	Parametric value*	Standard Method
Total Viable Count, 22 °C	CFU/ml	-	100	ISO 6222:1999
Total Viable Count, 37 °C	CFU/ml	-	20	ISO 6222:1999
Total coliforms	CFU/250 ml	-	0	ISO 9308-1:2000
<i>Escherichia coli</i>	CFU/250 ml	-	0	ISO 9308-1:2000
<i>Pseudomonas aeruginosa</i>	CFU/250 ml	-	0	ELOT EN ISO 16266:2009
Enterococci	CFU/250 ml	-	0	ISO 7899-2:2000

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Technical Supervisor  
Helen Gintoni  
Chemical Engineer

The measuring temperature of conductivity was 21,8°C. The measurement was made with a METROHM 712 conductivity meter which has an automatic temperature compensation device.

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