

قامت مستشفى جبل عامل، انطلاقاً من واجبها الوطني والاجتماعي والانساني، بالتعاون مع بلدية صور، وبعد الحملة الجائرة التي تعرضت لها المدينة والتي ادّعت تلوث مياه البحر على شواطئها، بإجراء الاختبارات والفحوصات المخبرية اللازمة لمياه البحر للتأكد من سلامتها وذلك في مركز البحوث الصناعية.

تمت عملية الفحص لعينتين تم اخذهما من الجهة الغربية للشاطئ او ما يسمى بمنطقة الجمل (عينة 1) والجهة الجنوبية للشاطئ او ما يسمى بمنطقة الخيم (عينة 2) وهي الاماكن المخصصة للسباحة في مدينة صور، وقد شملت الفحوصات التي تم القيام بها، فحصا للمكونات الكيميائية والجراثومية الموجودة في مياه البحر لا سيما تلك التي قد يتسبب وجودها بأمراض مختلفة للمواطنين.

وقد تبين، استناداً الى نتيجة الفحوصات المخبرية الصادرة عن مركز البحوث الصناعية بتاريخ 16 و 17 تموز 2018، بأن مياه البحر في مدينة صور غير ملوثة ولا تشكل خطراً على سلامة المواطنين، وأن نسبة المكونات الكيميائية والجراثومية الموجودة في عينات المياه التي تم فحصها هي ضمن الهوامش المحددة من قبل منظمة الصحة العالمية والمؤسسة اللبنانية للمعايير والمقاييس LIBNOR، وبناء عليه تبين أن مياه البحر في مدينة صور صالحة تماماً للسباحة والاستجمام.

وفي ما يلي ملخص للنتائج الرسمية للفحوصات المخبرية التي تم إجراؤها:

1. التحليل الكيميائي Chemical Analysis

المعدن	نتائج الفحص		المعايير حسب منظمة الصحة العالمية	المعايير حسب المؤسسة اللبنانية للمعايير والمقاييس
	عينة 1	عينة 2		
Zn(mg/l)	<0.1	<0.1	5	5
Cu(mg/l)	0.02	0.02	1	1
Pb(mg/l)	0.02*	0.03*	0.01	0.01
Cd(mg/l)	<0.01	<0.01	0.005	0.005
Ni (mg/l)	0.3*	3.8**	0.02	0.02
Hg(mg/l)	<0.01	<0.01	0.001	0.001
As (mg/l)	<0.01	<0.01	0.01	0.01

2. الفحوصات الجراثومية Micro-Biological Examination

الجراثمة	نتائج الفحص		المعايير حسب منظمة الصحة العالمية	المعايير حسب المؤسسة اللبنانية للمعايير والمقاييس
	عينة 1	عينة 2		
Total Coliform (CFU/100 mL)	18	64	< 500	NA
E. coli (CFU/250 mL)	3	2	< 250	NA
Salmonella (CFU/100 mL)	not detected	not detected	0.5 ppm	NA
Enterococci (CFU/250 ml)	1	9	< 250	NA
Anaerobic Sulfite Reducing Bacteria (CFU/50 ml)	2	19	< 60	NA

مستشفى جبل عامل

مستشفى جبل عامل



Date: 16/07/2018

Report

No: 5229/1011/458405/2018

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CLIENT

Name: **MESSRS. JABAL AMEL HOSPITAL
TYR - LEBANON**

Reference: Your letter dated on 09/07/2018 ; ref. 29/18
Sample your reference: "Tyr beach water, AL Kharab"

SAMPLE

Received as:

"Water"
(In a glass bottle)

Received on: 10/07/2018

Results

Testing duration: From 10/07/2018 to 14/07/2018

Unless otherwise specified, the sampling was done by the client.

MICROBIOLOGICAL EXAMINATION

<u>IRI</u> <u>Code No:</u>			<u>Reference</u> <u>Method</u>
266 - 20	Total coliforms (CFU/100ml)	1.8×10^1	ISO 9308-1
266 - 27	E.coli (CFU/250ml)	3.0×10^0	ISO 9308-1
266 - 22	Intestinal Enterococci (CFU/250ml)	1.0×10^0	ISO 7899-2
266 - 24	Anaerobic sulphite reducing bacteria (CFU/50ml)	2.0×10^0	ISO 6461-2
266 - 13	Salmonella (CFU/500ml)	Not detected	ISO 19250

Results relate only to the sample tested.

RM/kh

Eng. Hovig Kouyoumdjian

Laboratory Head
Microbiology



Nadia Khoury

Applied Research & Testing
Director

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CLIENT

Name: **MESSRS. JABAL AMEL HOSPITAL
TYR - LEBANON**

Reference: Your letter dated on 09/07/2018 ; ref. 29/18
Sample your reference: "Tyr beach water, AL Khyem"

SAMPLE

Received as:

"Water"
(In a glass bottle)

Received on: 10/07/2018

Results

Testing duration: From 10/07/2018 to 13/07/2018

Unless otherwise specified, the sampling was done by the client.

MICROBIOLOGICAL EXAMINATION

<u>IRI Code No:</u>			<u>Reference Method</u>
266 - 20	Total coliforms (CFU/100ml)	6.4×10^1	ISO 9308-1
266 - 27	E.coli (CFU/250ml)	2.0×10^0	ISO 9308-1
266 - 22	Intestinal Enterococci (CFU/250ml)	9.0×10^0	ISO 7899-2
266 - 24	Anaerobic sulphite reducing bacteria (CFU/50ml)	1.9×10^1	ISO 6461-2
266 - 13	Salmonella (CFU/500ml)	Not detected	ISO 19250

Results relate only to the sample tested.

JS/kh

Eng. Hovig Kouyoumdjian

Laboratory Head
Microbiology



Nadia Khoury

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Director

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INDUSTRIAL RESEARCH INSTITUTE

Report

Date: 17/07/2018

No: 5221/1351/458589/2018

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CLIENT

Name: **MESSRS JABAL AMEL HOSPITAL
TYR - ABBESSIEH**

Reference: Your letter dated on 09/07/2018 ref 28/018

SAMPLE

Received as:

" Water "

(in glass bottles)

Received on: 10/07/2018

Results

Testing duration: From 10/07/2018 to 17/07/2018

Unless otherwise specified, the sampling was done by the client.

CHEMICAL ANALYSIS

IRI

Sample your reference:

Code No:		"1"	"2"	Reference Method
411 - 5	Arsenic, as As (mg/l)	Less than 0.01	Less than 0.01	AAS-HVG
411 - 4	Lead, as Pb (mg/l)	0.02	0.03	AAS-furnace
411 - 4	Copper, as Cu (mg/l)	0.02	0.02	AAS-furnace
411 - 3	Zinc, as Zn (mg/l)	Less than 0.1	Less than 0.1	IT-me/CHI/03
411 - 4	Cadmium, as Cd (mg/l)	Less than 0.01	Less than 0.01	AAS-furnace
411 - 5	Mercury, as Hg (mg/l)	Less than 0.01	Less than 0.01	AAS-MVU
411 - 4	Nickel, as Ni (mg/l)	0.3	3.8	AAS-furnace

Sample your reference:

1 - Al Kharab

2 - Al Khyem

Results relate only to the samples tested.

CK/ny

Dr. Joseph Matta

Division Head Laboratories



1/1

Nadia Khoury

Applied Research & Testing Director

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