





GLOBAL ELIXIR WATER LABORATORY CENTER INC.  
AQUA LAB CENTER  
A DOH ACCREDITED WATER TESTING LABORATORY  
AN AUTHORITY IN WATER TESTING

Quezon City Office: Unit 8 and 10 DDI Bldg, Del Yuato Avenue corner Mayon Street Barangay Maharlika, Quezon City, 1114  
Telephone Nos.: (02) 8742-4743 / (02) 8742-4745 / (02) 8711-0917  
Telefax: (02) 8741-1170 Hotline Nos.: (02) 8891-2389 / (02) 8356-0888  
Mobile Nos.: 0908-8741-11 / 0943-7014741 / 0943-1374084 / 0906-4451651  
email address: akamayon@yahoo.com  
Pampanga Office: 8477 Mc Arthur Highway Barangay San Jose, City of San Fernando Pampanga, 2000  
Telephone No. (045) 624-1432 Mobile Nos. 0933-8673880 / 0927-1749396



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**REPORT OF ANALYSIS**  
**MICROBIOLOGICAL SECTION**

Water Laboratory Accreditation No. 13-012-1921-LW-2

**BUSINESS NAME** : **MAPUA UNIVERSITY** **DATE** : **October 08, 2020**  
**BUSINESS ADDRESS** : **Muralla St., Intramuros, Manila** **REFERENCE NO** : **MYN 263384 ML**  
**CONTACT NO** : **(02) 247-50-00 loc. 5105/0998-361-4953/0925-510-2372**

**SAMPLE DESCRIPTION :**

**SAMPLE SUBMITTED BY** : **Mr. Carlos C. Hortinela III**  
**DATE OF SAMPLING** : **September 30, 2020**  
**DATE RECEIVED** : **September 30, 2020**  
**TIME OF SAMPLING** : **2:00 PM**  
**PLACE OF SAMPLING** : **Manila**  
**SOURCE OF SAMPLE** : **MWSS - FILTERED WATER**

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count °CFU/mL	Pour Plate Method	—	8	< 500

\*MPN- Most Probable Number

°CFU- Colony Forming Units

**REMARKS :**

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

**REFERENCES :**

Philippine National Standards for Drinking Water, 2017, Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005, Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Certified Correct By:

Noted By:

Aqua Lab Seal  
Must contain initial on ink

**EDEN ROSE P. DUMAGUING, RMT**  
PRC LICENSE # 0092805

**KELVIN DY CO YU KANG, RCh**  
PRC LICENSE # 0009340  
Head-Laboratory Department

The results given in this report were obtained at the time of the test and refer only to the particular sample submitted. This report may not be reproduced, published or used for marketing purposes unless with written authorization from Aqua Lab Center - Mayon Branch.



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Telefax: (02) 8741-1170 Hotline Nos.: (02) 8897-2389 / (02) 8354-6059  
Mobile Nos.: 0908-8741412 / 0943-7014741 / 0943-1374004 / 0906-4431652  
email address: alrcmsyon@yishoo.com  
Pampanga Office: #477 Mc Arthur Highway Barangay San Jose, City of San Fernando Pampanga, 2008  
Telephone No. (045) 624-2432 Mobile No. 0933-8673888 / 0927-1756396



## REPORT OF ANALYSIS MICROBIOLOGICAL SECTION

Water Laboratory Accreditation No. 13-012-1921-LW-2

BUSINESS NAME : **MAPUA UNIVERSITY** DATE : October 29, 2020  
BUSINESS ADDRESS : Muralla St., Intramuros, Manila REFERENCE NO : MYN 256165 ML  
CONTACT NO : (02) 247-80-00 loc. 5105/0998-361-4953

### SAMPLE DESCRIPTION :

SAMPLE SUBMITTED BY : Mr. Rene Olvis  
DATE OF SAMPLING : October 21, 2020  
DATE RECEIVED : October 21, 2020  
TIME OF SAMPLING : 1:15 PM  
PLACE OF SAMPLING : Manila  
SOURCE OF SAMPLE : MWSS - Finished Product (PURIFIED)WATER

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count °CFU/mL	Pour Plate Method	-	< 1	< 500

\*MPN- Most Probable Number °CFU- Colony Forming Units

NOTE: PRODUCT WATER AS PER CLIENTS CLAIM

### REMARKS :

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

### REFERENCES :

Philippine National Standards for Drinking Water, 2017, Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Certified Correct By:

EDEN ROSE P. DUMAGUING, RMT  
PRC LICENSE # 0092805

Noted By:

KELVIN DY CO YU KANG, RCh  
PRC LICENSE # 0009340  
Head-Laboratory Department

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## EMINENT WATER LABORATORY CENTER

347-F A. Bonifacio Avenue, Brgy. San Jose, Quezon City  
Tel. Nos. (02) 8546-8939 / (02) 8365-7811 / (02) 8295-6237    Telefax: (02) 7412-4135  
Cell No: (0933)165-8046 / (0927) 830-9138  
Pampanga Office: Blk 1 Lot 4B Benito st. Dolores Homesite Extension 2, San Agustin,  
City of San Fernando, Pampanga  
Tel. Nos.: (045) 475-5078 / Cell. Nos.: (0922) 897-7869  
email address: jose\_lim@eminentwater.com

### MICROBIOLOGICAL TEST CERTIFICATE

NAME OF CLIENT : ANJENNETE G. VILLANUEVA / CARLOS HORTINELA III      Laboratory Control No.: **M21A34709B**  
Date Released: **January 22, 2021**  
COMPANY NAME : MAPUA UNIVERSITY      Page No.: **1 of 1**  
ADDRESS : Brgy. 658 Muralla St. Intramuros, Manila 1002  
Contact Number : 8247-5000

#### SAMPLE DESCRIPTION

Sample Code No : RWT# 34709B  
Submitted by : Anjennete G. Villanueva  
Date Received : January 14, 2021  
Date of Sampling : January 14, 2021  
Time of Sampling : 07:45 p.m.  
Date of Analysis : January 15 - 21, 2021  
Place of Sampling : Mapua Intramuros  
Source of Sample : **MWSS - PURIFIED WATER**

Analysis	Methodology	PNSDW Limit	Results
<b>TOTAL COLIFORM</b>	SM 9221 B. Multiple Tube Fermentation Technique	Less than 1.1 MPN/100ml	<b>Less than 1.1 MPN/100ml</b>
<b>THERMOTOLERANT (FECAL) COLIFORM</b>	SM 9221 E. Multiple Tube Fermentation Technique	Less than 1.1 MPN/100ml	<b>Less than 1.1 MPN/100ml</b>
<b>HPC</b>	SM 9215 B. Pour Plate	Less than 500 CFU/ml	<b>110 CFU/ml</b>

HPC - Heterotrophic Plate Count    CFU - Colony Forming Unit    MPN - Most Probable Number

#### Remarks:

*Sample submitted is within the PNSDW Limit in terms of Total & Fecal Coliform and HPC.*

#### REFERENCES:

Philippine National Standards for Drinking Water (PNSDW), 2017. Department of Health, Manila, Philippines  
Standard Methods for the Examination of Water and Wastewater, 23rd edition, APHA/AWWA/WEF, Washington DC 2017

The results given in this report were obtained at the time of test and refer only to the sample submitted. This report is submitted for the exclusive use of the client to whom it is addressed and shall not be reproduced in part or in full without authorization from Eminent Water Laboratory Center management. **Not valid** without the official seal of EWLC.

Analysis done by:

MA. JANELLE BLESS P. CURAMEN, RMT  
Laboratory Analyst  
License No. 0089889

Certified Correct by:

ANGELICA L. RIBANADA, RMT  
Laboratory Analyst  
License No. 0084688  
WMLA-19-0689

Noted by:

SHERYL L. OSUNERO-TESORIO, RCh  
Laboratory Head  
License No. 0008412



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email address: [alemayon@yahoo.com](mailto:alemayon@yahoo.com)  
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## REPORT OF ANALYSIS MICROBIOLOGICAL SECTION

Water Laboratory Accreditation No. 13-012-1921-LW-2

BUSINESS NAME : **MAPUA UNIVERSITY** DATE : March 05, 2021  
BUSINESS ADDRESS : Muralia St., Intramuros, Manila REFERENCE NO : MYN 269033 ML  
CONTACT NO : (02) 8247-5000 loc. 6102/0998-361-4953/0925-510-2371

### SAMPLE DESCRIPTION :

SAMPLE SUBMITTED BY : Ms. Anjennete G. Villa nueva  
DATE OF SAMPLING : February 24, 2021  
DATE RECEIVED : February 24, 2021  
TIME OF SAMPLING : 11:30 AM  
PLACE OF SAMPLING : Manila  
SOURCE OF SAMPLE : MWSS - PURIFIED (WATER)

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count CFU/mL	Pour Plate Method	—	5	< 500

\*MPN- Most Probable Number

CFU- Colony Forming Units

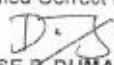
### REMARKS :

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

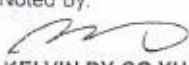
### REFERENCES :

Philippine National Standards for Drinking Water, 2017. Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Certified Correct By:

  
EDEN ROSE P. DUMAGUING, RMT  
PRC LICENSE # 0092805

Noted By:

  
KELVIN DY CO YU KANG, RCh  
PRC LICENSE # 0009340  
Head-Laboratory Department

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Mobile Nos.: 0908-8741412 / 0943-7014741 / 0943-1374004 / 0906-4431652  
email address: alemayon@yahoo.com

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Telephone No. (045) 624-2432 Mobile Nos. 0933-8613890 / 0927-1759396



### REPORT OF ANALYSIS

#### PHYSICO-CHEMICAL SECTION

Water Laboratory Accreditation No. 13-012-1921-LW-2

**BUSINESS NAME :** MAPUA UNIVERSITY **DATE :** March 12, 2021  
**BUSINESS ADDRESS :** Muralla St., Intramuros, Manila **REFERENCE NO :** MYN 269040 CL  
**CONTACT NO :** (02) 811-27-50 / 811-21-43 - 46 / 881-21-44 Loc. 203

#### SAMPLE DESCRIPTION

**SAMPLE SUBMITTED BY :** Anjennete G. Villanueva  
**DATE OF SAMPLING :** March 01, 2021  
**DATE RECEIVED :** March 01, 2021  
**TIME OF SAMPLING :** 1:30 PM  
**PLACE OF SAMPLING :** Manila  
**SOURCE OF SAMPLE :** MWSS - Finished Product (PURIFIED)

ANALYSIS	DESCRIPTION	METHOD	MAL	RESULTS
FREE CHLORINE	Excess chlorine	DPD Colorimetric	0.3** - 1.5*** ppm	<0.05 ppm
COLOR	Color due to dissolved particles	Visual Comparison	10.0 CU	<1.0 CU
NITRATE	"blue baby" syndrome	Ion Chromatography	50.00 ppm	0.53 ppm
LEAD	Carcinogenic when ingested	EAAS	0.01 ppm	<0.005 ppm
ARSENIC	Occurs naturally in sulfide minerals as pyrite	Hydride Generation AAS	0.01 ppm	<0.001 ppm
CADMIUM	Usually associated with zinc	EAAS	0.003 ppm	<0.0005 ppm
pH	Measure of acidity or alkalinity	Electrometric Method	6.5 - 8.5 @ 25°C 5.0 - 7.0*	6.81
TOTAL DISSOLVED SOLID	Total Dissolved Mineral Present	Gravimetric, dried at 180°C	600.0 ppm <10.0 ppm*	100.0 ppm
TURBIDITY	Presence of particles	Turbidimetry	5.0 NTU	<1.0 NTU

**NOTE:** MAL - Maximum Allowable Level  
PRODUCT WATER IS BASED ON CLIENT'S CLAIM  
\*-PURIFIED  
\*\*- MAXIMUM CONCENTRATION AT THE FARTHEST POINT OF THE DISTRIBUTION SYSTEM  
\*\*\*. MAXIMUM CONCENTRATION AT ANY POINT IN THE DISTRIBUTION SYSTEM

**REFERENCES:** Philippine National Standards for Drinking Water, 2017. Department of Health, American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Analysis Done By:

**RONALD A. BEGINO, RCh**  
Licensed Chemist  
PRC # 0014875

Certified Correct By:

**KELVIN DY CO YU KANG, RCh**  
Licensed Chemist  
PRC # 0009340

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email address: alemayon@yahoo.com

Pampanga Office: #477 Mc Arthur Highway Barangay San Jose, City of San Fernando Pampanga, 2000  
Telephone No. (045) 624-2432 Mobile Nos. 0933-8673880 / 0905-2811914



## REPORT OF ANALYSIS MICROBIOLOGICAL SECTION

Water Laboratory Accreditation No. 13-012-1921-LW-2

BUSINESS NAME : **MAPUA UNIVERSITY** DATE : May 07, 2021  
BUSINESS ADDRESS : Muralla St., Intramuros, Manila REFERENCE NO : MYN 273606 ML  
CONTACT NO : (02) 8247-5000 loc. 6102/0998-361-4953/0925-510-2371/0916-614-5228

### SAMPLE DESCRIPTION :

SAMPLE SUBMITTED BY : Ms. Anjennete G. Villanueva  
DATE OF SAMPLING : April 28, 2021  
DATE RECEIVED : April 28, 2021  
TIME OF SAMPLING : 1:30 PM  
PLACE OF SAMPLING : Manila  
SOURCE OF SAMPLE : MWSS - PURIFIED (WATER)

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count □CFU/mL	Pour Plate Method	—	150	< 500

\*MPN- Most Probable Number

□CFU- Colony Forming Units

### REMARKS :

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

### REFERENCES :

Philippine National Standards for Drinking Water, 2017. Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Certified Correct By:

JESSAH C. VILLANUEVA, RMT  
PRC LICENSE # 0066879

Noted By:

KELVIN DY CO YU KANG, RCh  
PRC LICENSE # 0009340  
Head-Laboratory Department

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**REPORT OF ANALYSIS  
MICROBIOLOGICAL SECTION**

Water Laboratory Accreditation No. 13-012-1921-LW-2

BUSINESS NAME : **MAPUA UNIVERSITY** DATE : June 04, 2021  
BUSINESS ADDRESS : Muralla St., Intramuros, Manila REFERENCE NO : MYN 273641 ML  
CONTACT NO : (02) 8247-5000 loc. 6102/0998-361-4953/0925-510-2371/0916-614-5228

**SAMPLE DESCRIPTION :**

SAMPLE SUBMITTED BY : Ms. Anjennete G. Villanueva  
DATE OF SAMPLING : May 27, 2021  
DATE RECEIVED : May 27, 2021  
TIME OF SAMPLING : 11:00 AM  
PLACE OF SAMPLING : Manila  
SOURCE OF SAMPLE : MWSS - PURIFIED (FAUCET)(WATER)

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count □CFU/mL	Pour Plate Method	-	< 1	< 500

\*MPN- Most Probable Number

□CFU- Colony Forming Units

**REMARKS :**

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

**REFERENCES :**

Philippine National Standards for Drinking Water. 2017. Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation. 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

Certified Correct By:

Noted By:

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**LEMUEL JONATHAN TORRES, RMT**  
PRC LICENSE # 0095356

**KELVIN DY CO YU KANG, RCh**  
PRC LICENSE # 0009340  
Head-Laboratory Department





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## REPORT OF ANALYSIS MICROBIOLOGICAL SECTION

Water Laboratory Accreditation No. 13-012-1921-LW-2

**BUSINESS NAME** : **MAPUA UNIVERSITY** **DATE** : June 19, 2021

**BUSINESS ADDRESS** : Muralla St., Intramuros, Manila **REFERENCE NO** : MYN 273606 ML

**CONTACT NO** : (02) 8247-5000 loc. 6102/0998-361-4953/0925-510-2371/0916-614-5228

### SAMPLE DESCRIPTION :

**SAMPLE SUBMITTED BY** : Ms. Aniennete G. Villanueva

**DATE OF SAMPLING** : June 10, 2021

**DATE RECEIVED** : June 10, 2021

**TIME OF SAMPLING** : 11:00 AM

**PLACE OF SAMPLING** : Manila

**SOURCE OF SAMPLE** : MWSS - PURIFIED (WATER)

Test Performed	Methodology	No. of Positive Tubes (out of 5 tubes)	Results	Standards
Total Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Thermotolerant (Fecal) Coliform *MPN/100ml	Multiple Tube Fermentation	0	< 1.1	< 1.1
Heterotrophic Plate Count <sup>o</sup> CFU/mL	Pour Plate Method	—	150	< 500

\*MPN- Most Probable Number

<sup>o</sup>CFU- Colony Forming Units

### REMARKS :

The results showed that the water sample submitted **PASSED** the DOH Standards for drinking water with respect to coliform bacteria and heterotrophic bacteria.

### REFERENCES :

Philippine National Standards for Drinking Water, 2017. Department of Health.  
American Public Health Association (APHA), American Water Works Association and Water Environment Federation, 2005. Standard Methods for the Examination of Drinking Water and Wastewater, 23<sup>rd</sup> ed. APHA, Washington DC.

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Noted By:

KELVIN DY OO-TU KANG, RCH  
PRC LICENSE # 0009340  
Head-Laboratory Department

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