

CERTIFICATE OF ANALYSIS

CLIENT : 26RAFAEL SDN.BHD.
B-3A-12, IOI BOULEVARD,
JALAN KENARI 5, BANDAR PUCHONG JAYA,
47170 PUCHONG, SELANGOR.

SAMPLE DESCRIPTION : ONE (1) SAMPLE OF WATER

SAMPLE RECEIVED : 02 AUGUST 2022

SAMPLE ANALYSIS DATE : 02 AUGUST 2022

SAMPLE MARKING : -

TEST PARAMETER	UNIT	METHOD	WHO SPECIFICATION	RESULTS
pH Value	-	APHA 4500 H+B, 21 st Edition	6.5 - 8.5	9.1 at 25°C
Color	Hazen	APHA 2120 C, 21 st Edition	Max 15	N.D (<5)
Turbidity	NTU	APHA 2130 B, 21 st Edition	Max 5	0.04
Total Dissolved Solids	mg/l	In-House Method SOP-0217-2018	Max 1000	79.8
Suspended Solids	mg/l	APHA 2540 D, 21 st Edition	-	N.D (<2)
Nitrate Nitrogen (NO ₃ ⁻ -N)	mg/l	APHA 4110 B, 21 st Edition	Max 11	1.6
Nitrite Nitrogen (NO ₂ ⁻ -N)	mg/l	APHA 4110 B, 21 st Edition	Max 0.9	0.085
Hardness (as CaCO ₃)	mg/l	APHA 2340 B, 21 st Edition	Max 500	37.78
Alkalinity (as CaCO ₃)	mg/l	APHA 2320 B, 21 st Edition	-	26.54
Chloride (Cl)	mg/l	APHA 4110 B, 21 st Edition	Max 250	10.6
Sulphate (SO ₄)	mg/l	APHA 4110 B, 21 st Edition	Max 500	17
Oil and Grease	mg/l	In-House Method SOP-0217-2005 Based on APHA 5520 B, 21 st Edition	-	N.D (<1)
Detergent	mg/l	HACH Method 8028, 2005, Edition 1	-	N.D (<0.1)
Phenol	mg/l	HACH Method 8047, 2005, Edition 1	Max 0.2	N.D (<0.02)
Arsenic (As)	mg/l	APHA 3125 B, 21 st Edition	Max 0.01	0.001
Cadmium (Cd)	mg/l	APHA 3125 B, 21 st Edition	Max 0.003	N.D (<0.001)
Calcium (Ca)	mg/l	APHA 3125 B, 21 st Edition	Max 200	13.37
Chromium (Cr)	mg/l	APHA 3125 B, 21 st Edition	Max 0.05	N.D (<0.001)
Iron (Fe)	mg/l	APHA 3125 B, 21 st Edition	Max 0.30	N.D (<0.001)
Copper (Cu)	mg/l	APHA 3125 B, 21 st Edition	Max 2.0	N.D (<0.001)
Lead (Pb)	mg/l	APHA 3125 B, 21 st Edition	Max 0.01	N.D (<0.001)
Magnesium (Mg)	mg/l	APHA 3125 B, 21 st Edition	Max 150	1.07
Manganese (Mn)	mg/l	APHA 3125 B, 21 st Edition	Max 0.1	N.D (<0.001)
Zinc (Zn)	mg/l	APHA 3125 B, 21 st Edition	Max 5.0	0.010
Cyanide (CN)	mg/l	HACH Method 8027, 2005, Edition 1	Max 0.17	N.D (<0.02)
Residual Chlorine (Cl ₂)	mg/l	APHA 4500-Cl G, 21 st Edition 2005	Max 5	N.D (<0.02)
Coliform	MPN/100ml	APHA 9221 B, 21 st Edition, 2005	NIL	N.D
<i>Escherichia coli</i>	MPN/100ml	APHA 9221 F, 21 st Edition, 2005	NIL	N.D

REMARKS

- 1) N.D - Not Detected.
- 2) Microbiological result reported as N.D denotes <2 for Coliform and *Escherichia coli*.
- 3) The above reported results only relate to the item (s) tested.

Loshnie Samuagam
Microbiologist
(MJMM0566)

ChM. Lim Ji Yuan
Chemist
IKM No: L/2755/8169/18

Notes:

- 1) The laboratory issues Certificate of Analysis (COA) based on the test parameter(s) requested on the specific sample(s) submitted for testing. The significance of this Certificate of Analysis (COA) is subjected to the adequacy and representative character to the sample(s) and to the comprehensiveness of the test parameter(s) requested herewith.
- 2) All Certificate of Analysis (COA) will be maintained with strictly confidential unless otherwise requested by the customer.
- 3) The laboratory is not responsible for any loss or damage of sample(s) during transportation/postage.
- 4) The laboratory shall retain the tested sample(s) according to the Sample Retention and Storage Schedule as follow (upon date completion of analysis): -
 - (i) Perishable - 1 week
 - (ii) Shelf stable - 2 weeks
 - (iii) Others:
 - a. Microbiological test - 1 week
 - b. Chemical/Physical test - 2 weeks
- 5) However, the laboratory reserves the right to dispose off the said remaining sample(s) at its own manners unless otherwise requested by client in written during submission of sample.
- 6) The laboratory shall charge minimum RM30 for regeneration of the test report.
- 7) MYTEST LAB treats the privacy of an individual's personal or company information seriously. Personal or company information is any information that would identify a natural person or company. Any personal or company information provided by you will only be used or disclosed for the purposes of enabling MYTEST LAB to keep records and generate Certificate of Analysis (COA).
- 8) The laboratory accepts no liability of any kind where any failure to perform work properly or at all results from force majeure including but not limited to government action, civil commotion, industrial dispute, flood, storm, fire and war or the threat of war.
- 9) Client is deemed to have accepted the Certificate of Analysis (COA) if there is no notification of changes in writing to the issuing laboratory within 7 working days after receipt.
- 10) Test Method Abbreviation
 - APHA - American Public Health Association
 - ASTM - American Society for Testing and Materials
 - AOCS - Official Methods of the American Oil Chemists' Society
 - AOAC - Official methods of Analysis of the Association of Official Analytical Chemists
 - AAMI - Association for the Advancement of Medical Instrumentation Haemodialysis System Standard
 - AS - Australian Standard
 - BP - British Pharmacopoeia
 - BS - British Standard
 - EPA - Environmental Protection Agency
 - FDA/BAM - US Food and Drug Administration Bacteriological Analytical Manual
 - FCC - Food Chemical Codex
 - ISO - International Organization for Standardization
 - MS - Malaysian Standard
 - USEPA - U.S. Environmental Protection Agency
 - USP - United States Pharmacopoeia
 - WHO - World Health Organisation
- 11) Instrumentation Technique Abbreviation
 - AAS - Atomic Absorption Spectrophotometry
 - ELISA - Enzyme-Linked Immunosorbent Assay
 - FTIR - Fourier Transform Infrared Spectrophotometry
 - GC - Gas Chromatography
 - GC-MS - Gas Chromatography-Mass Spectrometry
 - HPLC - High Performance Liquid Chromatography
 - IC - Ion Chromatography
 - ICP-OES - Inductively Coupled Plasma-Optical Emission Spectrometry
 - ICPMS- Inductively Coupled Plasma-Mass Spectrometry
 - LC-MS/MS - Liquid Chromatography Mass Spectrometry/Mass Spectrometry
 - PCR - Polymerase Chain Reaction
 - RT-PCR - Real Time - Polymerase Chain Reaction
 - UV - Ultra-Violet Spectrophotometry
 - UV/VIS - Ultra-Violet/Visible Spectrophotometry