

Name of Laboratory : Environment and Product Testing Center,  
Chiang Rai Rajabhat University

Address : 80 Moo 9, Phahonyothin Road, Tambon Ban du,  
Amphoe Mueang,Changwat Chiang Rai 57100

Accreditation Number : Testing – 0045

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Standard : ISO/IEC 17025:2017

Reference No. : 0303/2047

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Accreditation Number : Testing - 0045

Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	<p>- pH 4.0 to 10.0</p> <p>- Total hardness (Calculated as CaCO<sub>3</sub>) 20 mg/L to 500 mg/L</p> <p>- Sulfate 5 mg/L to 300 mg/L</p>	<p>In - house method : T-CH-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 4500-H<sup>+</sup> B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2340 C</p> <p>In - house method : T-CH-07 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 4500-SO<sub>4</sub><sup>2-</sup> E</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C
		- Fecal coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E
		- <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, G

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Standard plate count CFU/mL  - <i>Staphylococcus aureus</i> Detected or not detected/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9215 B  In - house method : T-MI-05 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9213 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2	Wastewater	<p>- pH 4.0 to 10.0</p> <p>- Total dissolved solids dried at 180 °C 80 mg/L to 2 000 mg/L</p> <p>- Total solids dried from 103 °C to 105 °C 100 mg/L to 2 000 mg/L</p>	<p>In - house method : T-CH-01 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 4500-H<sup>+</sup> B</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2540 C</p> <p>Standard Methods for the Examination of Water and Wastewater, APHA, AWWA &amp; WEF, 24<sup>th</sup> ed., 2023, part 2540 B</p>

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- Total suspended solids dried from 103 °C to 105 °C 20 mg/L to 500 mg/L  - Coliforms MPN/100 mL  - Fecal coliforms MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2540 D  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, E

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Wastewater	- <i>E. coli</i> MPN/100 mL	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 9221 B, C, G

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