

Name of Laboratory : Quality and Standard of Health Products Testing Unit,  
Faculty of Pharmaceutical Sciences, Ubonratchathani University

Address : 85 Sathonlamark Road, Tambon Mueang Si Kai, Amphoe Warinchamrap,  
Changwat Ubonratchathani 34190

Accreditation Number : Testing - 0179

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Standard : ISO/IEC 17025:2017

Reference No. : 0303/13667

### Scope of Testing Laboratory Accreditation

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Accreditation Number : Testing - 0179

Laboratory Status :  Permanent  Site  Temporary  Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Bottled drinking water	- pH 4.0 to 10.0  - Total hardness (Calculated as CaCO <sub>3</sub> ) 14.0 mg/L to 100.6 mg/L  - Chloride 15.2 mg/L to 250.6 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-H <sup>+</sup> B  In – house method : T-C-7.2-2 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2340 C  In – house method : T-C-7.2-3 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-Cl <sup>-</sup> B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Bottled drinking water	- Sulfate 7.95 mg/L to 42.42 mg/L  - Nitrate (Calculated as nitrogen) 0.55 mg/L to 4.50 mg/L	In – house method : T-C-7.2-4 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-SO <sub>4</sub> <sup>2-</sup> E  Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-NO <sub>3</sub> <sup>-</sup> B
2	Ice	- pH 4.0 to 10.0	In – house method : T-C-7.2-1 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-H <sup>+</sup> B

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2 (cont.)	Ice	- Total hardness (Calculated as CaCO <sub>3</sub> ) 12.0 mg/L to 101.6 mg/L  - Chloride 15.8 mg/L to 253.7 mg/L  - Sulfate 10.36 mg/L to 42.24 mg/L	In – house method : T-C-7.2-2 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 2340 C  In – house method : T-C-7.2-3 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-Cl <sup>-</sup> B  In – house method : T-C-7.2-4 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-SO <sub>4</sub> <sup>2-</sup> E

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Ice	- Nitrate (Calculated as nitrogen) 0.55 mg/L to 4.50 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> ed., 2023, part 4500-NO <sub>3</sub> <sup>-</sup> B

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