

Name of Laboratory : Laboratory of The Center for Scientific and Technological Equipment,
Suranaree University of Technology

Address : 111 University Avenue, Tambon Suranaree, Amphoe Mueang,
Changwat Nakhon Ratchasima 30000

Accreditation Number : Testing - 0023

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Initial Issue Date : 10th July 2008

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Standard : ISO/IEC 17025:2017

Reference No. : 0303/3472

Scope of Laboratory Accreditation

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Water	- Total hardness (Calculated as CaCO ₃) 5 mg/L to 1 000 mg/L - pH 6.0 to 10.0 - COD 5 mg/L to 500 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 2340 C In - house method : TE-504-01-08 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B In - house method : TE-504-01-11 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 B

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Water	- Arsenic 0.001 mg/L to 0.050 mg/L - Cadmium 0.001 mg/L to 0.050 mg/L - Lead 0.004 mg/L to 0.050 mg/L - Manganese 0.004 mg/L to 0.050 mg/L - Total coliforms MPN/100 mL - <i>E. coli</i> MPN/100 mL - <i>Salmonella</i> spp. Detected or not detected/100 mL	In - house method : TE-504-01-02 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 3125 B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 9223 B AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2016.01

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2	Wastewater	- pH 4.0 to 10.0 - COD 50 mg/L to 500 mg/L	In - house method : TE-504-01-08 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 4500-H ⁺ B In - house method : TE-504-01-11 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 th ed., 2023, part 5220 B
3	Concrete - Cube concrete specimens	- Compressive strength Load range 200 kN to 1 800 kN	TIS 409 : 2019 exclude item 2.1, 3.2, 3.3 and 3.4

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4	Steel bars for reinforced concrete - Round bars - Deformed bars	- Tensile strength - Yield strength - Elongation Load range 40 kN to 220 kN - Tensile strength - Yield strength - Elongation Load range 40 kN to 220 kN	TIS 20-2016 Refer to TIS 244 part 4-1982 TIS 24-2016 Refer to TIS 244 part 4-1982

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5	Aquatic animals and products - Freshwater fish - Freshwater shrimp - Seawater fish - Canned products	- Arsenic 0.10 mg/kg to 6.25 mg/kg - Lead 0.10 mg/kg to 6.25 mg/kg - Copper 0.30 mg/kg to 6.25 mg/kg - Mercury 0.03 mg/kg to 6.25 mg/kg	In - house method : TE-504-01-06 based on AOAC Official Methods of Analysis, 22 nd ed., 2023, method 2013.06
6	Feed	- Moisture 3.0 g/100 g to 23.0 g/100 g - Ash 6.5 g/100 g to 18.0 g/100 g	AOAC Methods of Analysis, 22 nd ed., 2023, method 930.15 AOAC Methods of Analysis, 22 nd ed., 2023, method 942.05

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7	Foods - Starch and products - Instant noodle - Instant rice porridge - Powdered chlorophyll - Powdered milk - Starch - Chilli paste - Dipping sauce	- Moisture 2.5 g/100 g to 18.7 g/100 g - Water activity 0.30 to 0.90	In - house method : TE-504-01-57 based on AOAC Methods of Analysis, 22 nd ed., 2023, method 925.10 In - house method : TE-504-01-56 based on AOAC Methods of Analysis, 22 nd ed., 2023, method 978.18

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