

No.	Instrument List or Method	Service Charge	Remarks
		(Not included VAT)	
ห้องปฏิบัติการวิเคราะห์ระดับนาโน (Nano Characterization Laboratory / NCL)			
1	Atomic Force Microscopy (AFM)		
	- AFM analysis (Physical/Chemical analysis), (SPM) SEIKO SPA400	2,000 THB/sample/hour	For first hour
	- AFM analysis (Biology analysis)		
	- AFM analysis (2nd hour onwards)	1,000 THB/hour/sample	Second hour onwards
	- AFM tip	2,500 THB/tip	
	- STM tip	7,000 THB/tip	
2	RAMAN Spectroscopy		
	- Raman spectrum (normal mode)	3,000 THB/hour	
	- Raman chemical mapping, Confocal Raman	5,000 THB/hour	
3	Surface area and porosity meter analyzer (ISOTHERM/BET)		
	- Isotherm (Surface area and porosity meter analyzer)	500 THB/hour	
	- BET (Surface area)	1,000 THB/sample	
4	Contact Angle Meter		
	- Contact Angle Measurement	2,500 THB/hour	Pico droplet measurement, Temperature control
5	Field Flow Fractionation (FFF)		
	- Multi Flow FFF	3,500 THB/sample	
	- Centrifugal FFF	3,000 THB/sample	
6	Transmission Electron Microscopy (TEM)		
	- TEM analysis	3,500 THB/hour	
	- Element analysis	500 THB/image	
	- Cu-C Grid	200 THB/piece	
	- Cu-C Grid (Grid Preparation Only, No analysis)	500 THB/piece	
7	Environment Scanning Electron Microscopy (E-SEM)		
	- E-SEM (Environment Scanning Electron Microscopy)	2,000 THB/hour	Accredited ISO/IEC17025
	- Coating : Platinum, Gold, Carbon	500 THB/time	
	- Element analysis	500/image	
8	Focused Ion Beam Field Emission Scanning Electron Microscopy (FIB-FE-SEM)		
	- FE-SEM analysis	4,500 THB/hour	
	- Coating : Platinum, Gold, Carbon	500 THB/time	
	- Element analysis	500/image	
	- Biological Sample Preparation	3,500 THB/sample	
9	Fluorescence Stereomicroscopy		
	- Fluorescence Stereomicroscopy analysis	800 THB/hour	
10	Fluorescence Spectrometer		
	- Fluorescence analysis	1,200 THB/sample	
11	Fourier Transform Infrared Spectroscopy (FT-IR)		
	- ATR (Attenuate Total Reflective)	600 THB/sample	
	- KBr (Transmission)	600 THB/sample	
	- KBr Sample Preparation	200 THB/sample	

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12	Gas Chromatograph-Mass Spectrometer (GC-MS)		
	- GC-MS (Qualitative) analysis	2,500 THB/sample	
	- GC-MS (Quantitative) analysis (1-5 samples)	6,000 THB/sample	
	- GC-MS (Quantitative) analysis (6-10 samples)	4,500 THB/sample	
	- GC-MS (Quantitative) analysis (11 samples and more)	3,000 THB/sample	
13	Triple Quadrupole Gas Chromatography-Mass spectroscopy (GC-MS/MS)		
	- GC-MS/MS analysis	3,500 THB/sample	
14	Liquid Chromatography-Mass Spectroscopy-Mass Spectroscopy (LC-MS/MS)		
	- LC-MS/MS analysis	3,500 THB/sample	
15	High Performance Liquid Chromatography (HPLC)		
	- HPLC analysis	1,000 THB/sample	
16	Analytical Ultra-Centrifuge (AUC)		
	- Analytical Ultra-Centrifuge (Qualitative)	2,500 THB/sample	
17	Nano Mechanical Tester (NMT)		
	- Standard hardness and Young's Modulus test	3,000 THB/hour	
	- Dynamic and Temperature control test	4,500 THB/hour	
18	Nano Coater for EM		
	- Nano coater for EM	500 THB/time	Thickness less than 5 nm
19	Weathering Testing Oven		
	- Weathering test (for 1 - 500 hours)	500 THB/hour	
	- Weathering test (501 hours onwards)	450 THB/hour	
	- Weathering testing Oven Sample Preparation	1,000 THB/time	
20	UV accelerated Weathering Tester		
	- UV accelerated weathering Test	100 THB/hour	
	- UV accelerated Weathering Testing Oven Sample Preparation	1,000 THB/time	
21	Mastersizer (HORIBA)		
	- Mastersizer (For water dispersion sample)	600 THB/sample	
	- Mastersizer (For solvents dispersion sample)	1,200 THB/sample	
22	Dynamic Light Scattering (DLS)		
	- Particle size analysis (For water dispersion sample)	600 THB/sample	Accredited ISO/IEC17025
	- Particle size analysis (For solvents and oil dispersion sample)	1,000 THB/sample	
	- Zeta Potential (For water dispersion sample)	1,100 THB/sample	
	- Zeta Potential (For solvents dispersion sample)	1,500 THB/sample	
23	Optical Microscopy		
	- Optical Microscopy analysis	600 THB/hour	
24	Tensiometer		
	- Tensiometer Analysis	1000 THB/sample	
25	Critical Point Drying (CDP)		
	- Critical Point Drying Analysis	2,000 THB/sample	

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26	Thermogravimetric Analysis (TGA)		
	- TGA analysis	1,200 THB/hour	
	- Crucible pan (volume 70/100 µl)	1,000 THB/crucible	
	- Crucible pan (volume 150 µl)	1,500 THB/crucible	
27	Differential Scanning Calorimetry (DSC)		
	- DSC Analysis	1,200 THB/hour	
	- Pan DSC	200 THB/pan	
28	UV-Visible Spectrophotometer		
	- UV-Visible Analysis (Abs, %T)	600 THB/sample	
	- UV-Visible Analysis (%R)	900 THB/sample	
29	ICP-MS		
	- ICP-MS analysis	1,100 THB/element	
	- ICP-MS Sample Preparation	500 THB/sample	
	- Calibration curve	1,600 THB/set	
30	X-Ray Diffractometer (XRD) (1600 Watts)		
	- XRD Analysis (normal mode)	3,000 THB/hour	
31	Bench Top X-ray Diffraction Analyzer (600 Watts)		
	- Bench top X-ray Diffraction analysis (Within 30 minutes)	600 THB/sample	
	- Bench top X-ray Diffraction analysis (31 to 60 minutes)	1,000 THB/sample	
	- Bench top X-ray Diffraction analysis (after first hour)	600 THB/every 30 min	

อัตราค่าบริการวิเคราะห์ทดสอบ ศูนย์นาโนเทคโนโลยีแห่งชาติ

Testing service charge, National Nanotechnology Center



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ห้องปฏิบัติการความปลอดภัยทางนาโนเทคโนโลยี (Nano Safety and Risk Assessment Laboratory / SRA)			
32	Anti-bacteria Test (Qualitative/เชิงคุณภาพ)		
	- AATCC 147	1,500 THB/sample/bacteria	Control sample is charged at this rate. Report is included.
	- JIS L 1902 (Qualitative)	1,500 THB/sample/bacteria	
	- CLSI M2-A11 (DISK)	1,500 THB/sample/bacteria	
33	Anti-bacteria test (Quantitative/เชิงปริมาณ)		
	- AATCC 100	3,000 THB/sample/bacteria	Control sample is free of charged. Report is included.
	- JIS L 1902 (Quantitative)	3,000 THB/sample/bacteria	
	- JIS Z 2801	3,500 THB/sample/bacteria	
	- ASTM E 2149	3,000 THB/sample/bacteria	
	- CLSI M7-A9 (MIC)	3,000 THB/sample/bacteria	
	- ISO22196 (Accredited ISO/IEC17025)	3,500 THB/sample/bacteria	
34	Others		
	- Sample Preparation	Depend on each sample	
	- Report	2,000 THB/copy	
	- Additional report (Thai/English)	500 THB/report	
	- Report delivery by Postal service (EMS)	50 THB/Package	
	- Report and returned samples delivery by Postal service (EMS)	100 THB/Package	(For weight not over 1 kg)
	- Fast Track Services for report & analysis	3 times additional charge	(Per regular rate)

Remarks :

1. This service rate is applied from May 1, 2017 until further notice.
2. Credit term 30 days.
3. Report will be sent to customers when full payment is received.
4. Contact telephone no. +66 2564 7100 Ext. 6567, +66 2117 6567, email: iss@nanotec.or.th
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