

	Sample Preparation		
	Description	Unit	Company
1	Precision Cut-off machine 1 - 3 times	Time	1,000
	Extra points	Time	200
2	Hot mounting	Sample	700
3	Vacuum Impregnation/Cold Mounting	Sample	1,100
4	Polishing machine		
	Operating time	Hr	1,000
	Sandpaper	Step	200
	Diamond	Step	400
5	Ion Milling	Hr	1,200
6	CPD (Critical Point Dryer)	Time	1,700
7	Freezer mill	Time	1,200
8	Laser cutting	Hr	2,100
9	CNC Milling (Computer Numerical Control)	Hr	2,100
10	3D Printing	Hr	500
	Polylactic acid (PLA)	KG.	2,000
	Optical Microscope		
	Description	Unit	Company
1	Optical Microscope with High-definition color camera head (DS-Fi2)	Hr	800
2	Optical Microscope with PC control-based control unit (DS-U3)	Hr	800
3	Optical Microscope (Eclipse LV-N, LV100DA-U) With Function grain size and Cast iron (NIS Element D)	Hr	1,500
	Melt Flow Index Test		
	Description	Unit	Company
Common	plastic		
1	MethodA: Manual cut-off (MFI, Melt Density)	Sample	1,200
2	MethodB: Automatic method (MVR, MFI) :Customer already know Melt Density	Sample	1,200
3	MethodC: Automatic method: Half Die (High MFI \geq 70 g/10min)	Sample	1,200
4	DryingOven (if drying less than 3 hr.: 150 baht per sample)	Sample	250
Engineeri	ing plastic		
1	MethodA: Manual cut-off (MFI, Melt Density)	Sample	1,800
2	MethodB: Automatic method (MVR, MFI) :Customer already know Melt Density	Sample	1,800
3	MethodC: Automatic method: Half Die (High MFI \geq 70 g/10min)	Sample	1,800
4	DryingOven (if drying less than 3 hr.: 150 baht per sample)	Sample	250
If the cus	stomer choose Method B and need Melt Density Calculation: 500 baht per sample		
	Heat Distortion Temperature Test		
	Description	Unit	Company
1	Operating Test (HDT or VICAT)	Test	2,000
	Nano Search Microscope		
	Description	Unit	Company
1	Operating time	Hr	4,200
2	LSM/SPM	Pic.	100
	3D Digital Video Microscope		
	Description	Unit	Company
1		Unit Hr	Company 2,000
	Description		
	Description Operating time		
	Description Operating time Atomic Forced Microscope (AFM 5500M)	Hr	2,000



	Field Emission Scann	ing Electron Microscopes (F	E-SEM)		
				Company	
	Description	Unit	SU8230	SU8030	SU5000
1	Operating time	Hr	4,000	3,800	3,500
2	SEM	Pic.	100	100	100
3	Coating	Time	200	200	200
4	EDS (Energy Dispersive X-Ray Spectroscopy)	Pic.	500	500	500
5	EBSD (Electron Backscatter Diffraction)				
	mapping	Pic.	1,000	-	-
	line scan, point, area	Pic.	500	-	-
	Transmission	Electron Microscope (TEM)			
	Description		Unit	Com	ipany
1	Operating time		Hr	4,!	500
2	ТЕМ		Pic.	100	
	Dark field		Pic.	1	00
			Pic.	1	00
	Diffraction pattern		Pic.	1	00
3	EDS (Energy Dispersive X-Ray Spectroscopy)		-		
	Mapping		Pic.	1.(000
	Line scan		Pic.		00
	Point scan		Pic.		
			Pic.	500	
	Area scan	lastron Spactroscopy (VDS)	PIC.	5	00
	Description	lectron Spectroscopy (XPS)	Unit	Com	
1	Operating time		Unit Hr		ipany
2	Component analysis		Element	6,200	
2	Micro-Energy Dispersive X-ray	Flueresense Spectromete			000
	Description	Fluorescence Spectromete		1	ipany
1	Sample testing (1 point)		Sample		. ,
2	Extra testing point in same sample			1,700	
			Point	500	
3	Sample preparation with film		Sample	300	
4	Testing with Helium path (For liquid sample)		Time 2,000		JUU
		-ray Crystallography (SC-XR		Com	
Small mole	Description ecule (Mole Molecule < 5,000)		Unit	COIL	ipany
1	Screen crystal with Optical Microscope and crystal mount	•	Sample	5	00
	Screen crystal and unit cell checking	l .	•	500	
2			Hr	1,500	
3	Full data collection (Room Temperature)		Hr	3,700	
4	Full data collection (Low Temperature)		Hr 4,500 Sample 15,000		
5	Analysis structure		Sample	15,	000
	ecule (Mole Molecule < 5,000)				
6	Screen crystal with Optical Microscope and crystal mount		Sample	850	
7	Screen crystal and unit cell checking		Hr	1,800	
8	Full data collection (Room Temperature)		Hr	4,500	
9	Full data collection (Low Temperature)		Hr	5,200	
10	Analysis structure		Sample	22,	000
	Small Angle	X-Ray Scattering (SAXS)			
	Description		Unit	Com	ipany
1	Operating time		Hr	7,3	300



Wavelength Dispersive X-Ray Fluorescence (WDXRF)					
	Description	Unit	Company		
1	Sample testing	Sample	1,700		
2	Sample Preparation	Sample	500		
	X-ray Powder Diffraction (XRD)				
	Description	Unit	Company		
1	Sample preparation	Sample	500		
2	Sample Preparation with Freezer mill	Time	1,200		
3	Sample testing	Sample	1,700		
	UV-Vis-NIR Spectrophotometer (UV-VIS-NIR)				
	Description	Unit	Company		
1	Sample testing (30 minute)	Sample	900		
If testing m	nore than 30 minutes cost 900 baht per 30 minute more per sample				
	Gas Chromatography - Mass Spectrometry (GC	-MS)			
	Description	Unit	Company		
	Qualitative	0	boundary		
Head space	e				
1	Sample preparation	Sample	600		
2	Customer condition	Sample	2,500		
3	Trial Condition	Sample	8,000		
Auto Inject	ion				
1	Sample preparation	Sample	500		
2	Customer condition	Sample	1,500		
3	Trial Condition	Sample	4,500		
	Quantitative	Unit	Company		
Head space	e				
1	Sample preparation	Sample	600		
2	Calibration Curve (Customer standard material)	Set	800		
3	Customer condition	Sample	2,500		
4	Trial Condition	Sample	0.000		
A + +		Sample	9,000		
Auto Inject					
1	Sample preparation	Sample	700		
1 2	Sample preparation Calibration Curve (Customer standard material)	Sample	700 800		
1 2 3	Sample preparation Calibration Curve (Customer standard material) Customer condition	Sample Set Sample	700 800 1,500		
1 2	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition	Sample Set Sample Sample	700 800 1,500 6,000		
1 2 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom	Sample Set Sample Sample Metry (LC-M	700 800 1,500 6,000 S/MS)		
1 2 3 4	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description	Sample Set Sample Sample netry (LC-M: Unit	700 800 1,500 6,000 S/MS) Company		
1 2 3 4 1	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample)	Sample Set Sample Sample Metry (LC-M: Unit Sample	700 800 1,500 6,000 S/MS) Company 16,000		
1 2 3 4 1 2	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample)	Sample Set Sample Sample netry (LC-M Unit Sample Sample	700 800 1,500 6,000 5/MS) Company 16,000 7,000		
1 2 3 4 1	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample	Sample Set Sample Sample netry (LC-M Unit Sample Sample Sample	700 800 1,500 6,000 S/MS) Company 16,000 7,000 2,100		
1 2 3 4 1 2	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrose	Sample Set Sample Sample netry (LC-M Unit Sample Sample Sample Sample	700 800 1,500 6,000 5/MS) Company 16,000 7,000 2,100 S)		
1 2 3 4 1 2 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectron Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrosc Description	Sample Set Sample Sample Metry (LC-M3 Unit Sample Sample Sample Opy (ICP-AE Unit	700 800 1,500 6,000 S/MS) Company 16,000 7,000 2,100 S) Company		
1 2 3 4 1 2 3 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample If more than 1 sample If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrosc Description 10 Elements (Digestion sample)	Sample Set Sample Sample Unit Sample Sample Sample Opy (ICP-AE Unit Sample	700 800 1,500 6,000 5/MS) Company 16,000 7,000 2,100 S) Company 3,500		
1 2 3 4 1 2 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectron Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrosc Description 10 Elements (Digestion sample) Oil Sample Follow ASTM D5185 (22 Elements)	Sample Set Sample Sample netry (LC-M Unit Sample Sample Sample Opy (ICP-AE Unit Sample Sample	700 800 1,500 6,000 S/MS) Company 16,000 7,000 2,100 S) Company		
1 2 3 4 1 2 3 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectrom Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrosc Description 10 Elements (Digestion sample) Oil Sample Follow ASTM D5185 (22 Elements) Inductively Coupled Plasma - Mass Spectrometry (Sample Set Sample Sample Unit Sample Sample Sample Opy (ICP-AE Unit Sample Sample Sample Sample	700 800 1,500 6,000 S/MS) Company 16,000 7,000 2,100 S) Company 3,500 5,000		
1 2 3 4 1 2 3 3	Sample preparation Calibration Curve (Customer standard material) Customer condition Trial Condition Liquid Chromatography - Mass Spectrometry/ Mass Spectron Description Trial condition within 3 h (for 1 sample) Customer condition (for 1 sample) If more than 1 sample Inductively Coupled Plasma - Atomic Emission Spectrosc Description 10 Elements (Digestion sample) Oil Sample Follow ASTM D5185 (22 Elements)	Sample Set Sample Sample netry (LC-M Unit Sample Sample Sample Opy (ICP-AE Unit Sample Sample	700 800 1,500 6,000 5/MS) Company 16,000 7,000 2,100 S) Company 3,500		



High-performance liquid chromatography (HPLC)			
	Description	Unit	Company
1	Trial condition within 3 h (for 1 sample)	Sample	4,300
2	Customer condition (for 1 sample)	Sample	3,400
3	If more than 1 sample	Sample	1,400
	Gas Chromatography - Mass Spectrometry / Mass Spectrom	etry (GC-MS	S/MS)
	Description	Unit	Company
	Qualitative		. ,
	Auto -Injection		
1	Trial Condition	Sample	5,300
2	Customer condition	Sample	2,600
EI mode :			
1	Trial Condition	Sample	9,000
2	Customer condition	Sample	4,400
EI mode : S	SPME		
1	Trial Condition	Sample	9,400
2	Customer condition	Sample	4,500
NCI & CI m	node : Auto - Injection		
1	Trial Condition	Sample	7,000
2	Customer condition	Sample	3,500
NCI & CI m	node : Headspace		
1	Trial Condition	Sample	12,400
2	Customer condition	Sample	6,000
NCI & CI m	node : SPME		
1	Trial Condition	Sample	12,700
2	Customer condition	Sample	6,200
	Quantitative	Unit	Company
EI mode :	Auto -Injection		
1	Trial Condition	Sample	8,800
2	Customer condition	Sample	5,400
EI mode :	Headspace		
1	Trial Condition	Sample	12,500
2	Customer condition	Sample	7,400
EI mode : S	SPME		
1	Trial Condition	Sample	13,000
2	Customer condition	Sample	7,800
NCI & CI m	node : Auto - Injection		
1	Trial Condition	Sample	12,200
2	Customer condition	Sample	7,100
NCI & CI m	node : Headspace		
1	Trial Condition	Sample	17,500
2	Customer condition	Sample	9,900
NCI & CI m	node : SPME		
1	Trial Condition	Sample	18,000
2	Customer condition	Sample	10,300
	Thermal Desorption System (TDS)		
	Description	Unit	Company
1	GC-MS with TDS for VOCs	Sample	15,200
2	GC-MS with TDS for VOCs and DNPH	Sample	31,600
L			



	Differantial S	canning Calorimeter (DSC))		
	Description		Unit	Company	
1	Sample testing (-120 to 500 °C)		Sample	2,000	
	Thermogra	avimetric Analysis (TGA)			
	Description		Unit	Company	
1	Sample testing (Ambient to 1,100 °C)		Sample	2,000	
	Ra	man Microscope			
	Description		Unit	Company	
1	Operating time		hr	3,200	
	E	nzyme Testing			
	Description Unit Com			Company	
Individual e	enzyme	Assay condition	onic	Company	
1	Amylase (U)	(50°C, pH 5.5)	Sample	1,700	
2	Alpha-amylase (DU)	(70°C, pH 6.6)	Sample	2,500	
3	Alpha-galactosidase (U)	(50°C, pH 5.5)	Sample	2,500	
4	Beta-glucanase (U)	(50°C, pH 5.5)	Sample	2,500	
5	Beta-glucosidase (U)	(50°C, pH 5.5)	Sample	1,800	
6	Beta-xylosidase (U)	(50°C, pH 5.5)	Sample	1,800	
7	Cellulase (U)	(50°C, pH 5.5)	Sample	1,700	
8	Cellulase (Fpase) (FPU)	(50°C, pH 5.5)	Sample	1,700	
9	Dextranase (U)	(37°C, pH 5.5)	Sample	1,700	
10	Invertase (U)	(30°C, pH 5.5)	Sample	1,700	
11	Laccase (U) (30°C, pH 5.5)		Sample	1,800	
12	Lipase (U)	(37°C, pH 8.0)	Sample	1,700	
13	Mannanase (U)	(50°C, pH 5.5)	Sample	1,800	
14	Pectinase (U)	(50°C, pH 5.5)	Sample	1,700	
15	Phytase (U)	(40°C, pH 5.5)	Sample	1,700	
16	Protease (U)	(37°C, pH 7.5)	Sample	1,700	
17	Xylanase (U)	(50°C, pH 5.5)	Sample	1,800	
18	Pullulan (U)	(40°C, pH 5.0)	Sample	2,500	
19	Glucoamylase (U)	(50°C, pH 4.5)	Sample	2,500	
Multi-enzym	Multi-enzymes			Company	
Package 1	Package 1 (Cel, Xyl, Amy, Man, Pro, Phy)		Sample	5,800	
Package 2	age 2 (Cel, Xyl, Amy, Man, Pro)		Sample	4,900	
Package 3	3 (Cel, Xyl, Amy, Man)		Sample	4,200	
Package 4	Package 4 (Cel, Xyl, Amy)		Sample	3,300	
Sodium doc	Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-Page)			Company	
12% Tris glycine, marker 10-250 kDa			Sample	800	

Remark

* Another Assay condition (pH) price increase 500 Baht/Sample * User methods (Extra charge)

**Remark

- Test Report 1,000.- B



	Confocal STED				
	Description	Unit	Company		
1	Operating time	Hr	4,200		
2	Image	Pic.	100		
	Safety Pharmacological Assessment Laboratory				
Description		Unit	Company		
Anti-bacte	ria Test (Qualitative)	Onic	Company		
1	AATCC 147	Sample/Bacteria	1,500		
2	JIS L 1902	Sample/Bacteria	1,500		
3	CLSI M2-A11 (DISK)	Sample/Bacteria	1,500		
Anti-bacte	Anti-bacteria test (Quantitative)		Company		
1	AATCC 100	Sample/Bacteria	3,000		
2	JIS L 1902	Sample/Bacteria	3,000		
3	JIS Z 2801	Sample/Bacteria	3,500		
4	ASTM E 2149	Sample/Bacteria	3,000		
5	CLSI M7-A9 (MIC)	Sample/Bacteria	3,000		
6	ISO22196 (Accredited ISO/IEC17025)	Sample/Bacteria	3,500		

**Remark

- Test Report 1,000.- B

Contact NCTC

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