



Announcement of the Faculty of Food Industry  
King Mongkut's Institute of Technology Ladkrabang  
Subject: Scientific Instrument Service Charge of the Food Industry Research and  
Development Center  
2021

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Food Industry Research and Development Center, Faculty of Food Industry, King Mongkut's Institute of Technology Ladkrabang has provided the analysis, the testing and the scientific equipment services to departments within the Faculty, within the institute and external units. Thus, in order to operate the management effectively, Food Industry Research and Development Center, Faculty of Food Industry would like to announce the rate of service charge for scientific equipment. This is effective from 10<sup>th</sup> January 2022 onward. The detail is as attached to the announcement.

Announcement date 20<sup>th</sup> December, 2021





*Naphatrapi*

(Asst.Prof.Dr. Naphatrapi Luangsakul)  
Dean of Food Industry



## List of service charge for analytical, processing and general equipment


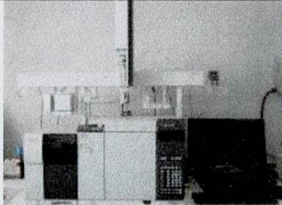
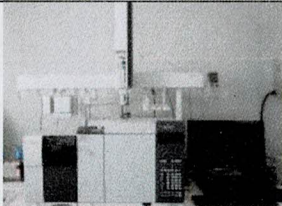
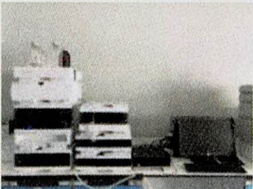
### Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
1	Colorimeter 1	Minolta CR400		-	-	300	1,800	400	2,400
2	Colorimeter 2	HunterLab		-	-	300	1,800	400	2,400
3	Differential Scanning Calorimeter (DSC)	Mettler Toledo DSC 2		150	900	225	1,350	300	1,800
4	Fermenter 1-5 lite	New Brunswick Bioflo310		-	-	-	1,000*	-	1,500*

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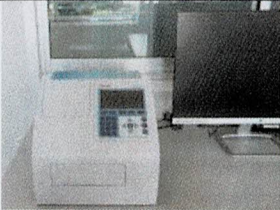

# Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
5	Fourier Transform Infrared Spectrometer (FTIR)	Bruker Invenio-s		250	1,500	375	2,250	500	3,000
6	Gas Chromatography – FID**	Agilent 7890B+5977B		160	960	300	1,800	400	2,400
7	Gas Chromatography – Mass Spectrometry (GC-MS)**	Agilent 7890B+5977B		200	1,200	375	2,250	500	3,000
8	High Performance – Liquid Chromatography (HPLC) 1***	Agilent Technologies 1260 series		200	1,200	375	2,250	500	3,000

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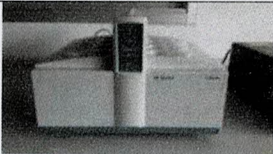


# Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
9	High Performance – Liquid Chromatography (HPLC) 2***	Agilent Technologies 1100 series		120	720	225	1,350	300	1,800
10	Kjeldahl	Gerhardt KB8S+VAP 30S		-	-	375	2,250	500	3,000
11	Micro plate reader	Thermo Multiskan Go		-	-	150	900	200	1,200
12	Muffle furnace	NaberTherm LT40/11/B170		-	-	300	1,800	400	2,400

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# Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
13	Multimode Microplate reader	PerkinElmer EnSight		-	-	300	1,800	400	2,400
14	Oil Stability index	Rancimat 743		-	-	375	2,250	500	3,000
15	PCR Thermal cycler	Eppendorf NexusGX2		-	-	150	900	200	1,200
16	Real-Time PCR	Biorad CTX96		-	-	300	1,800	400	2,400

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# Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
17	Rheometer	Anton paar MCR 302		200	1,200	375	2,250	500	3,000
18	Soxhlet	Gerhardt S406AK		-	-	375	2,250	500	3,000
19	Stereoscopic microscope with digital camera	Nikon SMZ745		-	-	150	900	200	1,200
20	Texture analyzer	TA.XT. Plus		-	-	375	2,250	500	3,000

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# Analytical Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
21	Ultra centrifuge size 11 ml	Himac CP100NX		-	-	225	1,350	300	1,800
22	UV-Vis Spectrophotometer	Shimadzu UV1800		-	-	300	1,800	400	2,400
23	Viscoamylograph	Brabender viscograph G		-	-	225	1,350	300	1,800
24	Water activity (aw)	Aqualab 4TEV		-	-	300	1,800	400	2,400

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## Processing Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
1	Air Blast chiller & Freezer	Kolkteck/SFC-50-5E		250	1,500	375	2,250	500	3,000
2	Extruder	Twin-Screw Extruder/CTE-D22L32		-	-	375	2,250	500	3,000
3	Freeze dryer 1	KINECT/LD0.5		250	2,000	375	3,000	500	4,000
4	Freeze dryer 2	Scanvac Coolsafe		100	800	150	1,200	200	1,600

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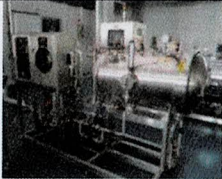
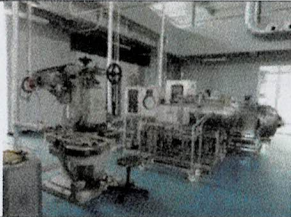


# Processing Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
5	Homogenizer	IKAT25		-	-	225	1,350	300	1,800
6	Sieve shaker	Retsch AS200 Digit		-	-	225	1,350	300	1,800
7	Spray dryer	Eurobest/5k		-	-	375	2,250	500	3,000
8	Rotary Water Spray Retort	OMF/PP500R		-	2,500*	-	3,750*	-	5,000*

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## Processing Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
9	Steam Retort	OMF/90ROFM		-	2,500*	-	3,750*	-	5,000*
10	Food Canning set - Exhausted - Lid closing - Retort			-	4,000	-	6,000	-	8,000
11	Super Critical fluid Extraction	SFX2130		250	1,500	375	2,250	500	3,000
12	Tray dryer	Progress		-	-	225	1,350	300	1,800

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# Processing Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
13	Grinder (Hammer mill)	WACO		-	-	225	1,350	300	1,800
14	Grinder (Pin mill 1)	Bonny 20B		-	-	265	1,500	350	2,000
15	Grinder (Pin mill 2)	Retsch ZM200		-	-	265	1,500	350	2,000
16	Pasteurization machine for fruit juice	OFM		250	1,500	375	2,250	500	3,000

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# General Equipment

Order no.	Equipment	Model	Photo	Service Charge					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
1	Autoclave	Tomy SX-500		-	-	-	115*	-	150*
2	Hot air oven	Binder		-	-	225	1,350	300	1,800
3	Incubator shaker	New Brunswick Innova 43R		-	-	75	450	100	600
4	Refrigerated centrifuge	Eppendorf 5804		-	-	150	900	200	1,200

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# General Equipment

Order no.	Equipment	Model	Photo	Service Charge (Baht)					
				Within the Faculty		Within the Institute		External Unit	
				Per hour	Per day/ Per time*	Per hour	Per day/ Per time*	Per hour	Per day/ Per time*
5	Refrigerated centrifuge (max volume)	Eppendorf 5910R		-	-	225	1,350	300	1,800
6	Rotary evaporator	Buchi R-300		-	-	225	1,350	300	1,800

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- Remark**
1. The service charge for the use of the equipment is calculated at a minimum of 1 hour, the fraction of the next hour is charged half an hour
  2. The service is held on business days, Monday to Friday, 9:00 a.m. - 4:00 p.m.
  3. The cost of disposable material will be calculated according to the actual amount used without discount. This can be adjustable according to the market price as listed below

Equipment	Disposable material	Price per piece (Baht)
Differential Scanning Calorimeter (DSC)	Standard aluminum crucible 40 ul	150
Fourier Transform Infrared Spectrometer (FTIR)	KBr	50
Gas Chromatography	Sample vial, screw top, headspace, clear, 10 ml	30
	Sample vial, screw top, headspace, clear, 20 ml	26
	Septum PTFE/Silicone for vial headspace 18 mm	12
	Head space cap 18 mm magnetic	50
	Sample vial 2 ml	9
	Cap screw PTFE for sample vial 2 ml	8
High Performance – Liquid Chromatography (HPLC)	Sample vial, amber glass 2 ml	9
	Preamsembled cap and septa PTFE for sample vial 2 ml	8
	Syringe disposable 3 ml	5
	Syringe filter, 13mm 0.22 um single-use (Nylon, PTFE, MixCellulose)	5
	Syringe filter, 13mm 0.45 um single-use (Nylon, PTFE, MixCellulose)	5
	Membrane filter, 47mm 0.22 um (Nylon, PTFE, MixCellulose)	15
	Membrane filter, 47mm 0.45 um (Nylon, PTFE, MixCellulose)	15
Multimode Microplate reader	96 well plate	20

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\*\* 4. In the case of Gas Chromatography, if the column is changed, the cost of consumables of the columns is 400 baht per time. In case of the user brings his/ her own column, the 10% discount will be applied from the service charge.

\*\* 5. In the case of Gas Chromatography, if the user does not continuously inject the sample continuously during the request for the service, the user is required to pay the carrier gas 350 baht per day.

\*\*\* 6. In case of HPLC, the user has to prepare the column and mobile phase for the analysis by himself/ herself. If the user uses the laboratory column, the additional charge will be applied with 200 baht per day.

7. Experts are required to give advices on how to use the equipment with the rate of 500 baht per time (for the agencies outside the faculty). The charge will be exempted in the consecutively used if he/ she can effectively use the equipment.

8. In the case of using Spray dryer, Extruder and juice pasteurizer, the experts need to be hired to give advices with the rate of 400 baht per time (for agencies outside the faculty) and the charge on the equipment cleaning will be 400 baht per time (for agencies outside the faculty).

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## The protocol for the use of scientific equipment with the service charge from the Faculty of Food Industry

According to the announcement of the Faculty of Food Industry Re: Scientific Instrument Service Charge of the Food Industry Research and Development Center B.E. 2021, announced on December 20, 2021. The central Laboratory needs to set the protocol for the use of scientific equipment with the service charge from the Faculty of Food Industry which is applicable for all buildings for students and staff from food industry will service charge and disposable material as the step below.

Student/Staff check the announcement about the rates for scientific equipment service charge of the Food Industry Research and Development Center, B.E. 2021



Student/ Staff download the requisition form from Food Industry Research and Development Center on the website <http://foodindustry.kmitl.ac.th/th> or from A1601 floor 6 Food Industry building and complete the requisition form



Submit the requisition form to Khun Ratanasuda Chuampai through the E-mail: [foodinnopolis@kmitl.ac.th](mailto:foodinnopolis@kmitl.ac.th) or else submit in person while receive the copy of the completed form



Student/ Staff is required to make a reservation on the equipment through the faculty website with the requirement on attaching the copy of requisition form



The expert in charge on the user training till the user complete the implementation



The expert reports the charge to Khun Ratanasuda Chuampai to process the student and staff payment upon the service



Student/ Staff process the payment  
End of the Process

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