

For office use only	
Received date :	

# 400 MHz FT-NMR Spectroscopy Analysis Request Form

Requestor Det	tails:					
Name :			Tel. no.	:		
Address :		H/P no.				
			Fax no.			
			— Email	:		
Sample Detail	<u>s:</u>					
Sample Code	Solvent	(e.g. <sup>1</sup> H, <sup>13</sup> C, H-H CO: HMBC)	SY, HMQC &	Weight (mg)	Suggested Experimental Time	Cha (R *to be by off
* Extra fees will be	charged upon the request	for NMR tube and solvent used	l in sample prepara	Tota	<u>                                     </u>	
* Additional charges	s will be imposed accordi	ngly if analysis is conducted be	yond the suggested	l experimental ti	me.	
Sample Propertie		Па :				
☐ Carcinogenic ☐ Odour	☐ Toxic ☐ Others, sp	Corrosive	_	ımmable	Explosive	
Handling Requir	nples in the fridge	Store sample in	the freezer	Handle	sample in the fume ho	od
Store san	upies in the mage	Store sample in	the freezer	Trandie	sample in the fume no	Ju
Handle sa	ample by wearing glove	Other handling	instruction :			
0 1 1 1	[		acn 1		1	
*A postal handling of	, I	Yes No		iciose disposal p	rocedure in attachment	)
*UTAR shall not be	responsible or be liable i	n relation to any loss or damag	e to your sample.			
I agree that all the in provided above are t		Processed by:		Verified b	y:	
Signature of requeste		Signature of officer-in charge Name:		Signature Name :	of HoD/Dean	
zac.		Date:		Date :		

## 400 MHz FT -NMR Spectroscopy Analysis Rate

#### Charges for NMR analysis per sample

Experiment	Rate (Ringgit Malaysia)							
	<sup>1</sup> H	<sup>13</sup> C	DEPT	Н-Н	HSQC	HMQC	HMBC	NOESY
Time				COSY				
≤ 10 min	50.00	-	-	-	-	-	-	-
≤ 30 min	70.00	80.00	80.00	80.00	80.00	80.00	80.00	-
30 min < x ≤ 1 hr	100.00	100.00	100.00	140.00	140.00	140.00	140.00	200.00
$1 \text{ hr} < x \le 2 \text{ hrs}$	-	150.00	150.00	200.00	200.00	200.00	200.00	300.00
$2  \text{hrs} < x  \leq 3  \text{hrs}$	-	200.00	200.00	260.00	260.00	260.00	260.00	400.00
3 hrs < x < 6 hrs	-	350.00	350.00	440.00	440.00	440.00	440.00	600.00
Additional hour	-	50.00	50.00	60.00	60.00	60.00	60.00	100.00
after 6 hours		per	per	per	per	per	per	per
		hour	hour	hour	hour	hour	hour	hour

#### **Charges for solvent:**

Solvent	Rate per sample (RM)
CDCl <sub>3</sub>	45.00
$D_2O$	50.00
CD <sub>3</sub> OD	55.00
DMSO-d <sub>6</sub>	60.00
Acetone-d <sub>6</sub>	60.00

### Analysis request guidelines:

- 1. Sample(s) sent with incomplete application form will not be accepted.
- 2. Preparation of sample in a 5 mm outer diameter NMR tube is encouraged.
- 3. For self-prepared sample, appropriate solvent should be used to obtain better result.
- 4. 5 mg of sample (at least) is suggested for analysis to obtain practical result.
- 5. Data acquired will be stored for one month, after which it will be permanently deleted.
- 6. Upon completion of analysis, an invoice will be issued by Division of Finance, UTAR addressed to the requestor.