

	MAKMAL BERPUSAT UNIVERSITI MALAYSIA TERENGGANU 21030 Kuala Terengganu, Terengganu Fax : 09-668 3395	Form Num.	UMT/MB/M/2016/GCFID
		Sample No.	GCFID/
GAS CHROMATOGRAPHY FLAME IONIZATION DETECTOR ANALYSIS APPLICATION FORM (GC2010 PLUS – FID SHIMADZU)			

APPLICANT'S PERSONAL PARTICULARS							
Name of Applicant							
Status of Applicant	Internal		Undergraduate		Master/PhD		Collaborator
	External		Student		Government		Private
Student ID / IC No.							
Faculty/ Department							
Hand Phone No. & Email							
SUPERVISOR DETAILS							
Name of Supervisor							
Research Vot. No.							
Faculty/Department							
Payment via *	Cash / Electronic Fund Transfer (EFT)					Local Order (LO) / Purchase Order (PO)	
	Direct Invoice				Vot Transfer		Cheque
Hand Phone No. & Email							
Signature & Official Stamp Date							
SAMPLE INFORMATION							
Type of Sample *	Fatty Acid Methyl Esters (FAMES)			Hydrocarbon (HC)			
	Other <i>(Please specify)</i> :						
Total No. of Sample							
Sample Labels & Information	Sample Origin:			Sample Purity: (Crude / Pure)			
	Sample Toxicity: (Carcinogenic/Not Sure)						
	List of sample with labels:						
	1			6			
	2			7			
	3			8			
	4			9			
5			10				
* Please attach additional list of samples if necessary							
* Samples should be filtered using 0.2 or 0.45 µm syringe filter & place in 2 mL GC Vial							
Standard <i>(Attach The Copy Of Std Ref)</i>	Yes	<i>Please specify the standard:</i>					
	No						
Expected Concentration of Standard - Calibration Curve (Min-3 points, Max-5 points)	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	* Sample should be within range of recommended standard points. * Any relatively high concentration of the samples will be made further dilution						
Sample Handling Details *	Store samples in the fridge / freezer						
	Store sample in the room temperature						
	Other handling instructions or hazard information: <i>(Please specify)</i> :						
Compounds To Be Detected							
Solvent							
Estimated Boiling Point (°C)							
Dilution *	Yes	<i>Please specify the dilution factor:</i>					
	No						
Injection	Volume (uL)	Temperature (°C)		Mode (Split / Splitless)		Split ratio	
Type of Capillary Column *	BPX 5; Non-Polar; 30.0 m x 0.25 mm ID x 0.25 µm; Column Tmax: 360°C						
	BPX 70; Polar; 30.0 m x 0.25 mm ID x 0.25 µm; Column Tmax: 260°C						
	Others (On Request) - Type of Column , Polarity, (Length x ID x Size), Column Tmax <i>(Please specify)</i> :						

Column Programming		Rate (°C/min)	Temperature (°C)	Hold time (min)
	0			
	1			
	2			
3				
Detector Temperature (°C)				
Default Setting	Detector : Flame Ionization Detector (FID) Carrier Gas (He) : Linear velocity; 75.4 kPa; 23.0 cm/sec Makeup Flow (N ₂) : 30.0 ml/min H ₂ Flow : 40.0 ml/min Air Flow : 400.0 ml/min			
Any Request on Method				
Please Specify Any Result Expectation				
Sample should be returned *	Yes			
	No (<i>If no, please enclosed disposal procedure</i>)			
OFFICE USE				
Date of Received				
Date of Completion				
Signature & Stamp of Person In-Charge				

*Please tick

General Rules and Requirement:

- Any sample or derivation of swine/pork/lard/pig/dogs type is not accepted for analysis purposes.
- Please refer to the website (<http://makmalberpusat.umt.edu.my/>) for further details of pricing and instrument. All analysis prices are subject to change.
- All information provided should be true.
- Submit the completed application form to the lab staff. Please attached the reference journal/method of analysis.
- Sample Condition & Preparation
 - Please be ensure the **MINIMUM SAMPLE VOLUME REQUIRED 0.5 to 1ml** per vial or use inserter for small volume.
 - MINIMUM SAMPLE FOR ANALYSIS AT LEAST 5 SAMPLES**
 - PACKAGING; SAMPLE SHOULD BE FILLED IN 2ML VIALS & READY FOR INJECTION.**
 - ALL SAMPLES MUST BE FILTERED.** Any relatively high concentration of the samples will be made further dilution upon discussion between client & person in-charge.
 - Column provided as stated in this form, otherwise user should provide your own specific column.
 - Makmal Berpusat UMT has the right to cancel any analysis if the sample is suspected to have high risk on the safety of the operator or can cause damage to the instrument during the analysis.
- All inquiries regarding Gas Chromatography instrument should be forwarded to the Science Officer (Mrs Nor 'Atiyah Binti Mohamed/ 09-668 3360/ noratiyyah@umt.edu.my)

REMARKS - OFFICE USE				
NO	DESCRIPTION			CHECKLIST - PIC
1	Storage	Room		Location:
		4°C		
		-20°C		
		-80°C		
2	List of received Item	No	Item	Quantity
		1	Sample	
		2	Standard	
		3	Column	
		4		
3	Post Analysis	Storage		
		Dispose		
4	Receiver Name	Stamp : Date:		Stamp : Date: