

Ref : ULUKM/1447/21

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CERTIFICATE OF ANALYSIS

Name of Customer Address	: DR AHMAD BUKHARY : School of Biological Sciences, Universiti Sains Malaysia
	11800 USM Gelugor, Pulau Pinang.
Tel. No.	: 012-304 5007
Sample Description	: One (1) sample described as CHEMICAL FERTILIZER NPK COMPOUND FERTILIZER
Sample Ref. No	: U0492/21

ANALYSIS RESULTS

(As per sample)

Parameter, Unit	Re	sult	Test Method / Equipment / Technique	
Nitrogen, % (w/w)	16.23	15.38	Nitrogen: In-house method no. STP/Chem/A03 based on AOAC 20 th Edi. 981.10	
Calcium, mg/kg	2405.57	2455.94	Microwave Digestion – AAS	
Potassium, mg/kg	130068.03	128377.07	Microwave Digestion - AAS	
Magnesium, mg/kg	1664.72	1649.98	Microwave Digestion – AAS	
Phosphorus, mg/kg	38713.31	39143.99	Microwave Digestion – MP/AES	

Remarks:

a. Opened / balance samples will be discarded two weeks after issuance of Certificate of Analysis.

anaguhaa NOR AIN SYUHADA ZUHAIM Laboratory Executive UNIPEQ SON BHD (870956-D)

This report refers to the tested sample only. Sampling is not carried out by our organization. All analysis are carried out to the best of our knowledge and ability and our responsibility is limited to the correctness of the result. This report is issued on the understanding that is does relieve parties concerned from their contractual obligations. This report shall not be reproduced except in full without written approval of the laboratory.

Bridge To A UNIPEQ Sdn. Bhd. (870956-D) Block A, UKM - MTDC Technology Centre, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor Darul Ehsan, Malaysia.

REPORT

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Our Ref	:	ACL/MIS-OTH 210810
Company	:	DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia 11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Chemical Fertilizer NPK Compound

Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
рН	-	In House based on APHA 4500 H^+ B	5.9
Total Organic Carbon	‰w∕w	MS678:Pt I to IV:1980	1.6
Total Organic Matter	%w/w	In House	41.2
Sulphur as S	mg/kg	ICP-OES	2,865
C/N Ratio	-	By Calculation	0.1

Note: "<" denote "Less Than"

MOHD BADRULLAH BIN BUANG BSc(Hons), LMIC IKM Registered Chemist : L/2784/8241/18

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Certificate of Analysis

Lab Ref No.: UL2107-A00636

SN: RS1423073320343314

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Noor Azinah Maamin Chemist & Food Analyst IKM No. : M/1973/4360/03 Food Analyst No: MJMM 0622 AN1: RA1501014831428503

DR AHMAD BUKHARY BIN AHMAD KHAIR SCHOOL OF BIOLOGICAL SCIENCE G08 BUILDING UNIVERSITI SAINS MALAYSIA 11800 PULAU PINANG

MALAYSIA Sample Marking:

Sample Description:

Bridge To

A Better Product

CHEMICAL FERTILIZER NPK COMPOUND FERTILIZER FERTILIZER

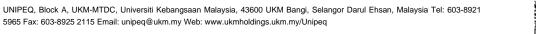
Remarks:

1. Opened / balance samples will be discarded two weeks after issuance of Certificate of Analysis.

Unit	Result(s)	Test Method/Equipment/Technique
%w/w	57.5	In-house Method No: STP/Chem/A05 based on AOAC 20th Edition: 923.03

- END OF REPORT -

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Our Ref	:	ACL/MIS-OTH 220310
Company	:	DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia 11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Fertilizer

Marking: Chemical Fertilizer NPK Compound Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Cation Exchange Capacity	meq/100g	MS 678: Pt. I to V :1980	13.1
Conductivity	μS/cm	MS 678: Part VI to IX :1980	3,720

Note: "<" denote "Less Than"

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REPORT

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Our Ref	:	ACL/MIS-OTH 220289
Company	:	DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia 11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Chemical Fertilizer NPK Compound

Fertilizer Received one (1) samples labelled as Chemical Fertilizer NPK Compound Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Ammonium	mg/kg	Ion Chromatography	2476.6
Nitrate	mg/kg	Ion Chromatography	0.04
Nitrite	mg/kg	Ion Chromatography	0.02

Note:

"ND" denotes "Not Detected" "<" denotes "Less Than"

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Our Ref	:	ACL/MIS-OTH 220346
Company		DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia 11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Fertilizer Marking: Chemical Fertilizer NPK Compound Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Crude Fiber	% w/w	MS 1414 (1997)	Not Detected

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Our Ref	:	ACL/MIS-OTH 220365
Company	:	DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia 11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Fertilizer Marking: Chemical Fertilizer NPK Compound Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Iron as Fe	mg/kg	ICP-OES	.4,115.0

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Our Ref	:	ACL/MIS-OTH 220380
Company	:	DR AHMAD BUKHARY BIN AHMAD KHAIR School of Biological Sciences G08 Building, Universiti Sains Malaysia
		11800 USM Pulau Pinang
Sample description	:	Received one (1) samples labelled as Fertilizer Marking:

: Received one (1) samples labelled as Fertilizer Marking: Chemical Fertilizer NPK Compound Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Organic Nitrogen as N	mg/kg	APHA4500Norg-B, NH3-G	2,600
Ferric Iron	mg/kg	APHA3500Fe,3120	15,700

Note: "<" denote "Less Than"

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