

Page 1 of 1

Our Ref

ACL/MIS-OTH 220157

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 Postharvest Soil

Marking: USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
рН	=	In House based on APHA 4500 H ⁺ B	6.2
Exchangeable Potassium	mg/L	MS 678: Pt. I to V: 1980	14.5
Exchangeable Calcium	mg/L	MS 678: Pt. I to V: 1980	35.0
Exchangeable Magnesium	mg/L	MS 678: Pt. I to V : 1980	5.5
Cation Exchange Capacity	meq/100g	MS 678: Pt. I to V : 1980	6.3
Total Organic Carbon	%w/w	MS678:Pt I to IV:1980	0.6
Total Organic Matter	%w/w	In House	8.7

Note:

"<" denote "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), LMIC

IKM Registered Chemist: L/2784/8241/18

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

T +607-288 2088

Taman Perindustrian Cemerlang, 81800 Johor Bahru, F +607-

Johor, MALAYSIA.





Page 1 of 1

Our Ref

ACL/MIS-OTH 220157/A

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 Postharvest Soil

Marking: USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Nitrogen	%w/w	MS 1120 (2004)	0.08
Available Phosphorus	mg/kg	Bray Extraction	258

Note:

"<" denote "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), LMIC

IKM Registered Chemist: L/2784/8241/18

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7, Taman Perindustrian Cemerlang, T +607-288 2088 F +607-

81800 Johor Bahru, Johor, MALAYSIA.





Page 1 of 1

Our Ref

ACL/MIS-OTH 220157/B

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 Postharvest Soil

Marking: USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
C/N Ratio	Ŧ	In-House	7.5

Note:

"<" denote "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), LMIC

IKM Registered Chemist: L/2784/8241/18

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

T +607-288 2088

+607-

Taman Perindustrian Cemerlang,

81800 Johor Bahru, Johor, MALAYSIA.





Page 1 of 1

Our Ref

ACL/MIS-OTH 220157/B

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 Postharvest Soil

Marking: USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Soil Conductivity	μS/cm	MS 678:Part VI to IX:1980	54.7

Note:

"<" denote "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), LMIC

IKM Registered Chemist: L/2784/8241/18

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7, Taman Perindustrian Cemerlang, T +607-288 2088 F +607-

81800 Johor Bahru, Johor, MALAYSIA.





Page 1 of 1

Our Ref

ACL/MIS-OTH 220335

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Potassium as K	mg/kg	ICP-OES	950.0

MOHD BAD

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22





Page 1 of 1

Our Ref

: ACL/MIS-OTH 220342

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Sulphur as S	mg/kg	ICP-OES	230.0

MOHD BADRULLAH BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22







Page 1 of 1

Our Ref

ACL/MIS-OTH 220291

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Phosphorus	mg/kg	ICP-OES	208.3
Ammonium	mg/kg	Ion Chromatography	15.7
Nitrate	mg/kg	Ion Chromatography	0.03
Nitrite	mg/kg	Ion Chromatography	0.01

Note:

"ND" denotes "Not Detected"

"<" denotes "Less Than"

MOHD BADRULLAM BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

T +607-288 2088 F +607-

Taman Perindustrian Cemerlang, 81800 Johor Bahru,

E aclsb@alliedchemists.com.my

Johor, MALAYSIA.

W www.alliedchemists.com.my





Page 1 of 1

Our Ref

: ACL/MIS-OTH 220352

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Sulphate as SO4	% w/w	MS 678 : Part VI to IX:1980	1.9
Sulphide as S2-	mg/kg	APHA 4500-S2-D	< 0.5
Phosphate as PO4	mg/kg	Spectrometry	60.5

Note:

"<" denotes "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

T +607-288 2088

Taman Perindustrian Cemerlang, 81800 Johor Bahru, F +607-

Johor, MALAYSIA.





Page 1 of 1

Our Ref

: ACL/MIS-OTH 220357

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Crude Fiber	% w/w	MS 1414 (1997)	2.5

MOHD BADRULLAH BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

T +607-288 2088

Taman Perindustrian Cemerlang,

F +607-E aclsb@a

81800 Johor Bahru, Johor, MALAYSIA.





Page 1 of 1

Our Ref

ACL/MIS-OTH 220371

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 Postharvest Soil Marking:

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Total Iron as Fe	mg/kg	ICP-OES	4,595.0

MOHD BADRULLAH BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22





Page 1 of 1

Our Ref

ACL/MIS-OTH 220386

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 **Postharvest Soil Marking:**

USM Penang L14-Building, Plant House - Control Treatment /

No Fertilizer

Results of Analysis

Parameter	Unit	Method	Results
Organic Nitrogen as N	mg/kg	APHA4500Norg-B, NH3-G	1,890
Ferric Iron	mg/kg	APHA3500Fe,3120	16,100
Iron as Fe2O3	%w/w	By Calculation	1.4

Note:

"<" denote "Less Than"

MOHD BADRULLAH BIN BUANG

BSc(Hons), MMIC

IKM Registered Chemist: M/5949/8241/18/22

Allied Chemists Laboratory Sdn Bhd 199801006433 (462560-M)

1, Jalan Gemilang 7,

+607-288 2088

Taman Perindustrian Cemerlang, 81800 Johor Bahru,

+607-E

Johor, MALAYSIA.

W www.alliedchemists.com.my

aclsb@alliedchemists.com.my