

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
pH	-	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

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 /
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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

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	-	In-House	7.5

Note:

"<" denote "Less Than"



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

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**
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Results of Analysis

Parameter	Unit	Method	Results
Soil Conductivity	$\mu\text{S/cm}$	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


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 BADRULLAH BIN BUANG
BSc(Hons), MMIC
IKM Registered Chemist : M/5949/8241/18/22

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

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 BADRULLAH BIN BUANG
BSc(Hons), MMIC
IKM Registered Chemist : M/5949/8241/18/22

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 SO ₄	% w/w	MS 678 : Part VI to IX:1980	1.9
Sulphide as S ²⁻	mg/kg	APHA 4500-S ₂ -D	< 0.5
Phosphate as PO ₄	mg/kg	Spectrometry	60.5

Note:

"<" denotes "Less Than"



MOHD BADRULLAH BIN BUANG
BSc(Hons), MMIC
IKM Registered Chemist : M/5949/8241/18/22

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



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