

# BANANA

## Elite Planting Materials Through Tissue Culture Technology

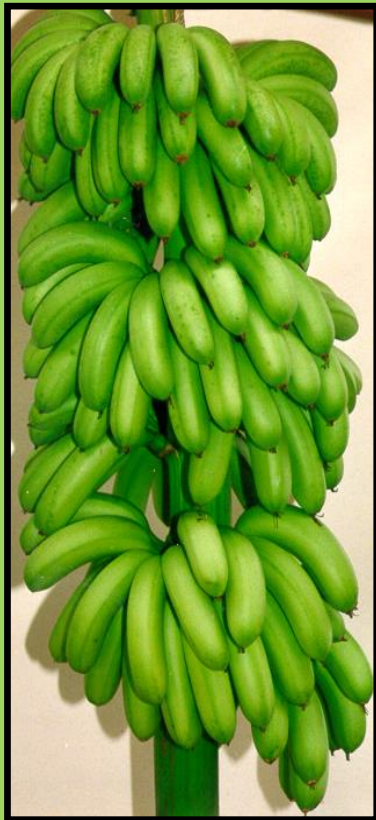
Tissue cultured plantlets produced by United Plantations Berhad have the following agronomic characteristics:

- Improved growth vigour
- Early flowering
- Uniformity in growth & bunch production
- High bunch weight
- Fruits with cleaner peel



### INTAN

Berangan/Lacatan  
with cleaner peel



Bunch Weight: 20-25kg  
No. of Combs >7kg

### MUTIARA

Rastali/Silk tolerant  
to Fusarium Wilt



Bunch Weight: 18-20kg  
No. of Combs >8

### NOVARIA

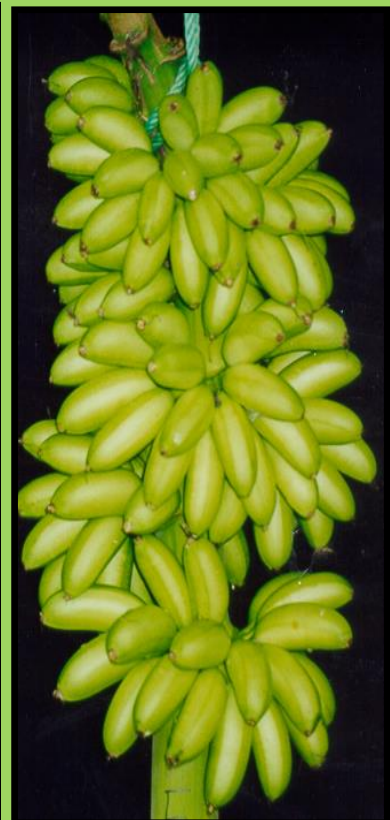
Cavendish  
Early flowering



Bunch Weight: 30-45kg  
No. of Combs >7

### SURIAMAS

Mas with high  
bunch weight



Bunch Weight: 15-20kg  
No. of Combs >7



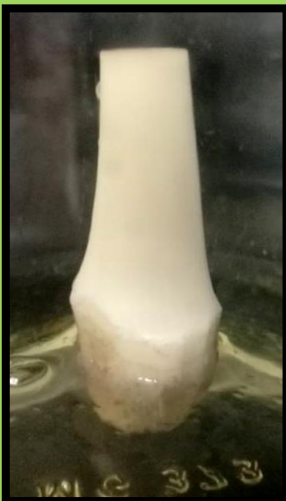
# Tissue Culture in The Laboratory



**Transfer operators in the laboratory**



**Banana sucker**



**Shoot tip explant**



**Multiple plantlets**



**Shoot multiplication**



**Rooted plantlets**



**Packing for despatch  
to distant/overseas buyers**



# TC Plantlets in The Nursery & Field Planting



**General view of shade houses for acclimatisation of plantlets**



**Acclimatised plantlets after 8 weeks in commercial nursery**



**Loading for despatch**



**Plant in polybag ready for field planting**



**Intercropping with oil palm**



**Intercropping with coconut**



**4 months after field planting**



## Novel Dessert Variety



Lemak Manis



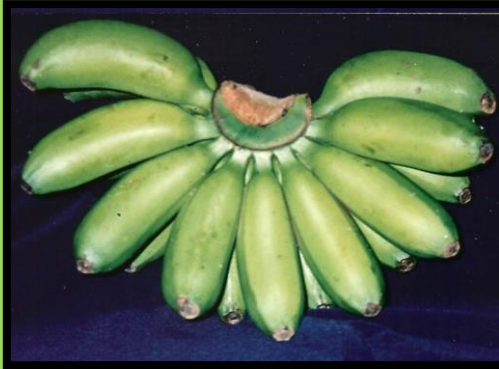
Raja



Jarum Ali



Jari Buaya



Udang Green



Udang Red

## Cooking Variety – Chips, Fritters, Cake, ‘Cekodok’



Abu



Nangka



Awak



Highgate



Tanduk



Bluggoe



# Yield of Different Banana Cultivars



**Abu**  
Av.Weight: 25kg-30kg  
No. of combs: >10



**Awak**  
Av.Weight: 20kg-25kg  
No. of combs: >10



**Nangka**  
Av.Weight: 25kg-30kg  
No. of combs: >8



**Raja**  
Bunch Weight: 18kg-20kg  
No. of combs: >7



**Williams**  
Av.Weight: 30kg-45kg  
No. of combs: >8



**Jari Buaya**  
Av.Weight: 18kg-23kg  
No. of combs: >7



**Lemak Manis**  
Av.Weight: 10kg-12kg  
No. of combs: >7



**Tanduk**  
Bunch Weight: 8kg-10kg  
No. of finger: >7

## Organic Fertiliser For Banana



**BAJA RIA** is a granulated organic fertiliser produced by United Plantations Berhad's novel technology. It contains 12% N, 5% P<sub>2</sub>O<sub>5</sub>, 10% K<sub>2</sub>O, 3% MgO plus Calcium and Trace-elements. It is ideal for bananas

### **Our Company**

United Plantations Berhad is one of the major Plantation Groups in Malaysia listed on the First Board of the Kuala Lumpur Stock Exchange. The Company's core business is in the cultivation of and processing of oil palms and coconut. The group comprises of 12 estates located in and around the Lower Perak District.



### **Our Research Department**

United Plantations Berhad's Research Department (U.P.R.D.), located in Jendarata Estate is an integrated component of the group with a fully equipped commercial Tissue Culture laboratory. The Department's activities are applied research, analytical laboratory services, advisory services and the production of quality planting materials of oil palms, coconuts and bananas.

### **Our Achievements in Banana:**

- One of the pioneers in the commercial production of quality tissue cultured banana planting materials in Malaysia since 1987
- Produced and sold over 2.8 million banana plantlets from 2012 - 2016
- Recognised by growers as a consistent producer of quality banana planting materials
- Developer and producer of P. INTAN, P. MUTIARA and joint developer of P. NOVARIA

### ***For further information please contact:***

Research Department  
United Plantations Berhad  
36009 Teluk Intan  
PERAK, MALAYSIA

Tel: 05-6411411/6436233 Fax: 05-6412337

E-mail: [uprd4@unitedplantations.com](mailto:uprd4@unitedplantations.com)