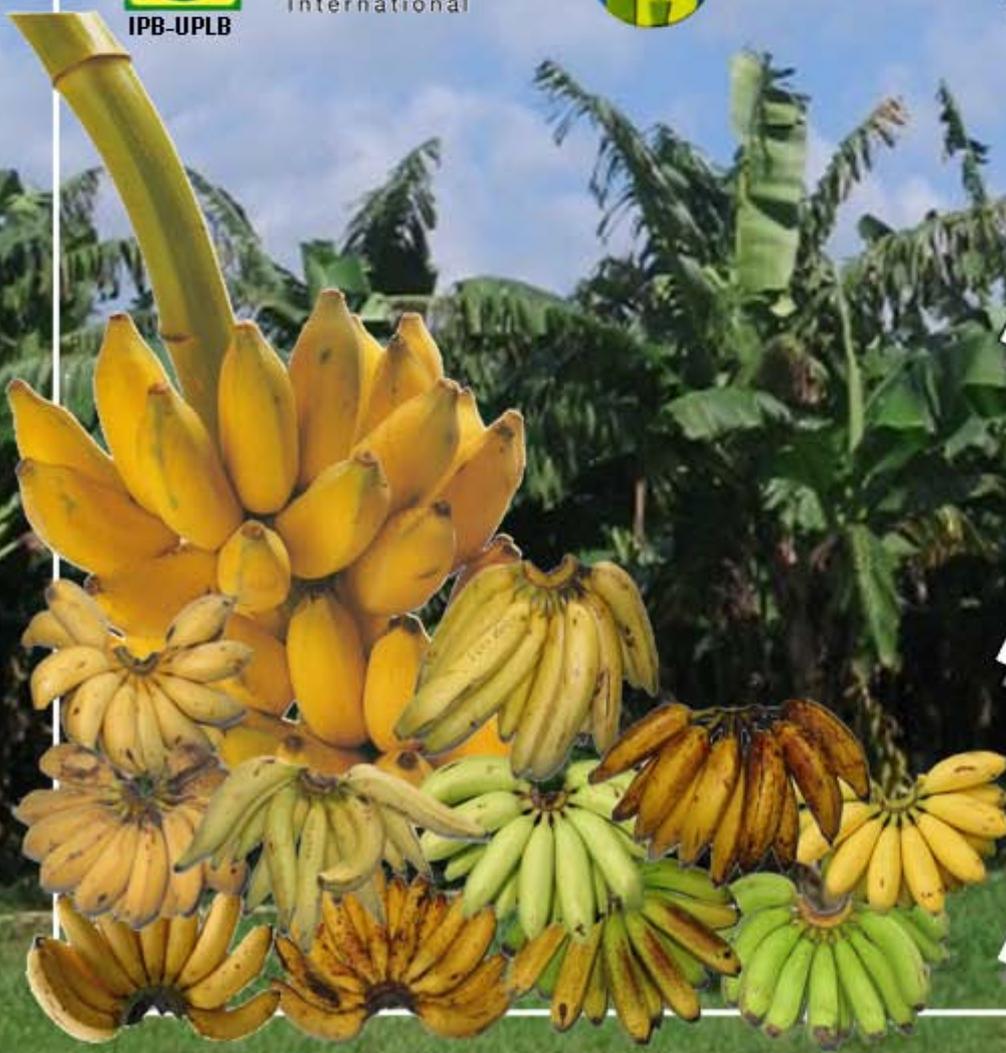


Catalogue of introduced and local banana cultivars in the Philippines

Results of a demonstration trial by the Institute of Plant Breeding,
University of the Philippines Los Baños

FS dela Cruz, Jr, LS Gueco, OP Damasco, VC Huelgas, IG Banasihan,
RV Lladones, I Van den Bergh and AB Molina



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INTRODUCTION

Banana is the most important fruit crop in the Philippines. It ranks first in production (>5.63 million metric tonnes) and area harvested (415 000 has) (BAS 2005). Except for the export banana which is a significant source of foreign exchange, the crop is grown largely by small-holder farmers, traded by local entrepreneurs and consumed locally. Thus, it plays a major role in food security and income generation of the rural poor.

In the last 10 years, *Musa* researchers worldwide have developed a number of new, high yielding and disease-resistant cultivars of banana. Today, these improved cultivars are being made available for testing and distribution to small-holder farmers by the International Network for the Improvement of Banana and Plantain (INIBAP)¹. The availability to the local banana industry of these improved cultivars and superior landraces from foreign sources is a shortcut to a long, tedious and expensive banana breeding programme. It is believed that the introduction of these new cultivars as a component of an integrated crop management strategy involving the use of clean planting materials, could have a rapid and significant impact on levels of production of banana in the Philippines.

In 21 March 2001, the National Plant Genetic Resources Laboratory (NPGRL) of the Institute of Plant Breeding (IPB), University of the Philippines Los Baños (UPLB) received *in vitro* plantlets of 22 *Musa* accessions from INIBAP's *Musa* Germplasm Transit Centre in Leuven, France. The introduction was facilitated by the INIBAP-Asia Pacific Office. In addition to the introduced varieties, the NPGRL collected important local cultivars. These were evaluated as disease-free foundation stocks. These materials were treated initially as a germplasm collection and were maintained in cultures at the Plant Cell and Tissue Laboratory and in insect-proof greenhouse at IPB.

A demonstration plot of introduced and local cultivars was established at the IPB Experimental Farm located in Mainit, Bay, Laguna in October 2002 after funds were provided by INIBAP. The demonstration plot showcased the growth habit and yield potential of the introduced cultivars in comparison with some important local cultivars. It was opened to all individuals and groups, including farmers, entrepreneurs, government workers, students and researchers, for visit. Morphological characterization, yield evaluation, sensory evaluation as well as assessment of the response of the different cultivars to common pests and diseases (banana bunchy top virus, black and yellow Sigatoka, freckles, etc.) were also conducted.

In January 2004, INIBAP established the National Repository, Multiplication and Distributions Centre (NRMDC) at the NPGRL, IPB, UPLBCA through funds provided by the Department of Agriculture – Bureau of Agricultural Research (DA-BAR). The NRMDC was given the responsibility of introducing and maintaining disease-free foundation stocks of improved, high-yielding and diseases-resistant varieties from INIBAP and local cultivars

¹ Effective 1 December 2006, the International Plant Genetic Resources Institute (IPGRI) and INIBAP operate as Bioversity International.

as well making them available to farmers, researchers and other interested individuals and institutions. It also conducts farmer-participatory evaluation trials to determine local adaptability, yield and quality characteristics of the introduced varieties and multiplies selected cultivars (both introduced and local) for wider distribution to farmers and other interested users.

This catalogue provides preliminary information on the morphological and yield characteristics of 19 introduced and 8 local cultivars grown at the IPB demonstration plot. It is intended to serve as a useful guide in the identification of cultivars and in the selection of cultivars for further evaluation by researchers and planting by interested banana growers.

MATERIALS AND METHODS

Nineteen introduced hybrids and landraces and eight local cultivars (including four accessions of Lakatan) were multiplied *in vitro* following the standard tissue-culture procedure for banana developed by Damasco and Barba (1984). Plantlets produced were potted out in 5 cm x 8 cm polybags using 1:1 mixture of garden soil and coconut coir dust and were maintained inside the greenhouse. Slow release fertilizer (Osmocote®) was applied once during potting-out at the rate of 10 grams per bag. The growth of plants, as well as the incidence of pests and diseases, was monitored. Off-types and plants showing disease symptoms were removed. Plantlets were about 8 weeks old with about 4-5 leaves when transplanted in the field.

The demonstration plot was prepared in a 2-hectare experimental field located in Mainit, Bay, Laguna (14°08'N, 121°16'E, 40 masl) from October 2002 to December 2004. The soil is clay loam. During the course of the trial, the average monthly temperature ranged between 25.5°C and 29.8°C, with a mean of 27.6°C (Figure 1a). Total monthly rainfall ranged from 4 mm to 387 mm (Figure 1b).

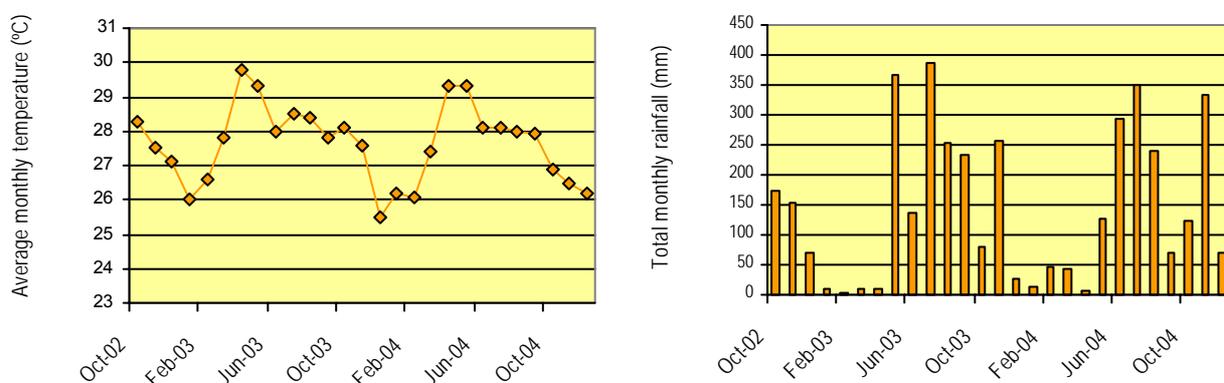


Figure 1. Average monthly temperature (a) and total monthly rainfall (b) in Mainit, Bay, Laguna from October 2002 to December 2004.

The first batch of materials, consisting of 19 introduced and local cultivars, was planted in October 2002. The second batch, consisting of 8 cultivars, was transplanted in January 2003. The plants were laid out using double-row planting with 2 m x 2 m distance between hills and 3 m distance between cultivars. Each cultivar was replicated 3 times with 20 plants per replicate.

At planting, plants were given basal fertilizer using 14-14-14 at the rate of 50 g per plant. Plants were fertilized every 3 months thereafter at the rate on 37 g N, 14 g P₂O₅ and 44 g K₂O per plant, equivalent to 296 kg N, 112 kg P and 352 kg K per hectare per year. Irrigation was provided right after planting and whenever necessary during the growing period. Drainage canals every two rows were prepared to prevent waterlogging in the area. Weeding and other practices such as deleafing, desuckering, removal of male buds and removal of banana bunchy-top plants were conducted as needed.

Morphological characterization and evaluation were conducted following the Descriptors for Banana² published by INIBAP-AP. The plants were characterized from July 2003 to October 2004. Additionally, passport data of some of the cultivars featured in this catalogue were taken from the *Musa* Germplasm Information System (MGIS)³ database of IPGRI-INIBAP and CIRAD.

² Downloadable at http://bananas.bioversityinternational.org/files/files/pdf/publications/descriptors_en.pdf

³ Online version: http://195.220.148.3:8013/mgis_2/homepage.htm.

Introduced cultivars

Cachaco

Passport data

Accession number: 2001-030
Acquisition date: 21-03-2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Farmer's variety/landrace
Donor number: ITC.0643
Genome: ABB
Pedigree: ABB Bluggoe
Purpose: Cooking/dessert
Notes: Susceptible to Race 2 of fusarium wilt

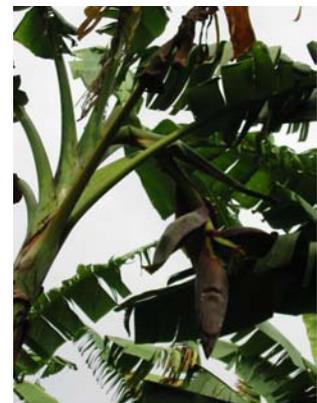


Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.55 m
Pseudostem girth (at 1m):	46.85 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Light green
Pigmentation of the underlying pseudostem:	Light green
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Small blotches
Blotches colour:	Brown black
Petiole canal leaf III:	Margins curved inward
Petiole margins:	Winged and clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.79 cm
Leaf blade length:	219.83 cm
Leaf blade width:	57.17 cm
Leaf ratio:	3.85
Petiole length:	56.00 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Few stripes
Colour of midrib dorsal surface:	Light green
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle length:	74.38 cm
Peduncle weight:	1.62 kg
Empty nodes on peduncle:	1
Peduncle width:	4.73 cm
Peduncle colour:	Light green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present, male bud degenerated or persistent
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Purple-brown
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate (x/y = 0.30)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Pink/pink-purple
Compound tepal pigmentation:	Very few
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with pink
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Very developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Yellow
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exsertion:	Same level
Style shape:	Straight
Stigma colour:	Cream
Ovary shape:	Straight
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Pink/pink-purple
Fruits	
Planting to flowering:	330 days
Flowering to harvest:	121 days
Planting to harvest:	451 days
Bunch weight:	12.54 kg
Number of hands per bunch:	5
Number of fruits per bunch:	51
Fruit weight:	162.55 g
Fruit length:	136.66 mm
Fruit width:	43.22 mm
Fruit thickness:	50.42 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Pronounced ridges
Fruit apex:	Lengthily pointed
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	44.87 mm
Fruit pedicel width:	12.64 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	4.14 mm
Fruit peel weight:	53.57 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	91.75 g
Pulp colour at maturity:	White
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	56.45% (Seeds present)
Predominant taste:	Astringent
Pulp TSS:	22.16°Brix



CRBP 39

Passport data

Accession number: 2001-043
Acquisition date: 21/03/2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Advanced cultivar
Donor number: ITC.1344
Genome: AAAB
Pedigree: Female: AAB plantain cv. French Clair
 Male: M53 (4x)
Purpose: Good flavour and cooking characteristics
Notes: Medium to tall
 Highly resistant to black leaf streak



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.92 m
Pseudostem girth (at 1m):	52.37 cm
Pseudostem colour (external):	Blue
Pseudostem appearance:	Dull
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Red
Sap colour:	Milky
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Black purple
Petiole canal leaf III:	Margins overlapping
Petiole margins:	Winged and clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	1.05 cm
Leaf blade length:	197.33 cm
Leaf blade width:	74.33 cm
Leaf ratio:	2.65
Petiole length:	51.17 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.28 kg
Peduncle length:	43.07 cm
Peduncle width:	4.69 cm
Empty nodes on peduncle:	0
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present, male bud degenerated or persistent
Rachis position:	Falling vertically
Rachis appearance:	Neutral/male flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Lanceolate ($x/y = 0.24$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Little
Free tepal apex shape:	Threadlike
Anther exertion:	Exserted
Filament colour:	Cream
Anther colour:	Cream
Pollen sac colour:	Ivory
Style basic colour:	White
Pigmentation on style:	Purple
Style exertion:	Same level
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Straight
Ovary basic colour:	White
Ovary pigmentation:	With red-purple
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	338 days
Flowering to harvest:	103 days
Planting to harvest:	441 days
Bunch weight:	12.30 kg
Number of hands per bunch:	6
Number of fruits per bunch:	81
Fruit weight:	150.12 g
Fruit length:	124.53 mm
Fruit width:	23.43 mm
Fruit thickness:	24.94 mm
Fruit shape (longitudinal curvature):	Curved in "S" shape
Transverse section of fruit:	Pronounced ridges
Fruit apex:	Lengthily pointed
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	27.63 mm
Fruit pedicel width:	8.65 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	1.61 mm
Fruit peel weight:	30.60 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	104.37 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous
Flesh texture:	Firm
Edible portion:	69.52%
Predominant taste:	Sweet
Pulp TSS:	28.23°Brix



Cv. Rose

Passport data

Accession number: 2001-031
Acquisition date: 21/03/2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Farmer's variety
Donor number: ITC.0712
Genome: AA
Pedigree: Primitive cultivar, AA-IRFA 907/IDN 110
Purpose: Dessert
Notes: Used as resistant reference clone for fusarium wilt



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.43 m
Pseudostem girth (at 1m):	37.97 cm
Pseudostem colour (external):	Red
Pseudostem appearance:	Dull
Predominant underlying colour:	Red-purple
Pigmentation of the underlying pseudostem:	Brown
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Pink-purple to red
Edge of petiole margin:	With colour
Petiole margin width:	0.71 cm
Leaf blade length:	209.80 cm
Leaf blade width:	60.20 cm
Leaf ratio:	3.49
Petiole length:	44.80 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Few wax
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides pointed
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.02 kg
Peduncle length:	36.36 cm
Peduncle width:	4.76 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging at angle 45°
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Truncated
Rachis position:	At an angle
Rachis appearance:	Male flowers/bracts above male bud
Male bud type:	Normal (present)
Male bud shape:	Lanceolate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Orange red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Ovate (x/y = 0.32)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Inserted
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	181 days
Flowering to harvest:	122 days
Planting to harvest:	303 days
Bunch weight:	4.71 kg
Number of hands per bunch:	8
Number of fruits per bunch:	106
Fruit weight:	33.47 g
Fruit length:	87.94 mm
Fruit width:	25.56 mm
Fruit thickness:	25.32 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Slightly ridged
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	27.92 mm
Fruit pedicel width:	8.79 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	1.54 mm
Fruit peel weight:	9.40 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	24.70 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	73.78%
Predominant taste:	Sweet
Pulp TSS:	23.79°Brix



FHIA-01

Passport data

Accession number: 2001-026
Acquisition date: 21-03-2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Advanced cultivar
Donor number: ITC.0504
Genome: AAAB
Pedigree: Female: AAB Pome cv. Prata Ana (Dwarf Prata)
 Male: SH 3142
Purpose: Dessert
Notes: Resistant to black leaf streak, *Radopholus similis* and Races 1 and 4 of fusarium wilt. Strong plant; tolerant to drought and cold temperature



Characterization and evaluation data



Plant general appearance

Leaf habit: Drooping
Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 2.81 m
Pseudostem girth (at 1m): 55.55 cm
Pseudostem colour (external): Green-yellow
Pseudostem appearance: Shiny
Predominant underlying colour: Cream
Pigmentation of the underlying pseudostem: Pink-purple
Sap colour: Watery
Wax on leaf sheaths: Moderately waxy

Petiole/midrib/leaf

Blotches at petiole base: Sparse blotching
Blotches colour: Dark brown
Petiole canal leaf III: Open with margins spreading
Petiole margins: Winged and not clasping pseudostem
Wing type: Not dry
Petiole margin colour: Green
Edge of petiole margin: With colour
Petiole margin width: 2.85 cm
Leaf blade length: 218.32 cm
Leaf blade width: 71.87 cm
Leaf ratio: 3.04
Petiole length: 47.10 cm
Colour of leaf upper surface: Green
Appearance of leaf upper surface: Shiny
Colour of leaf lower surface: Medium green
Appearance of leaf lower surface: Dull
Wax on leaves: Moderately waxy
Insertion point of leaf blades on petiole: Symmetric
Shape of leaf blade base: Both sides rounded
Leaf corrugation: Very corrugated
Colour of midrib dorsal surface: Yellow
Colour of midrib ventral surface: Light green

Inflorescence/male bud

Peduncle weight: 1.70 kg
Peduncle length: 37.52 cm
Peduncle width: 5.90 cm
Empty nodes on peduncle: 0
Peduncle colour: Light green
Peduncle hairiness: Hairless
Bunch position: Hanging vertically
Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate ($x/y = 0.29$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Cream
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	259 days
Flowering to harvest:	120 days
Planting to harvest:	380 days
Bunch weight:	15.60 kg
Number of hands per bunch:	9
Number of fruits per bunch:	121
Fruit weight:	116.68 g
Fruit length:	123.95 mm
Fruit width:	37.66 mm
Fruit thickness:	36.63 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Without any floral relicts
Fruit pedicel length:	31.34 mm
Fruit pedicel width:	10.17 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow green
Fruit peel thickness:	2.85 mm
Fruit peel weight:	32.44 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	79.16 g
Pulp colour at maturity:	Cream
Fruits fall from hands:	Deciduous
Flesh texture:	Firm
Edible portion:	67.94%
Predominant taste:	Sweet
Pulp TSS:	18.80°Brix



FHIA-02

Passport data

Accession number: 2001-027
Acquisition date: 21-03-2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Advanced cultivar
Donor number: ITC.0505
Genome: AAAB
Pedigree: Female: AAA Cavendish cv. Williams
 Male: SH 3393
Purpose: Dessert
Notes: Susceptible to fusarium wilt in Honduras; similar to Cavendish, but with short postharvest greenlife



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 2.71 m
Pseudostem girth (at 1m): 52.73 cm
Pseudostem colour (external): Green-yellow
Pseudostem appearance: Shiny
Predominant underlying colour: Cream
Pigmentation of the underlying pseudostem: Pink-purple
Sap colour: Watery
Wax on leaf sheaths: Moderately wax

Petiole/midrib/leaf

Blotches at petiole base: Sparse blotching
Blotches colour: Brown
Petiole canal leaf III: Wide with erect margins
Petiole margins: Winged and not clasping pseudostem
Wing type: Dry
Petiole margin colour: Pink-purple to red
Edge of petiole margin: With a colour line along
Petiole margin width: 0.70 cm
Leaf blade length: 188.33 cm
Leaf blade width: 72.00 cm
Leaf ratio: 2.62
Petiole length: 41.00 cm
Colour of leaf upper surface: Green
Appearance of leaf upper surface: Dull
Colour of leaf lower surface: Green
Appearance of leaf lower surface: Dull
Wax on leaves: Very waxy
Insertion point of leaf blades on petiole: Symmetric
Shape of leaf blade base: Both sides rounded
Leaf corrugation: Very corrugated
Colour of midrib dorsal surface: Yellow
Colour of midrib ventral surface: Green

Inflorescence/male bud

Peduncle weight: 1.80 kg
Peduncle length: 36.67 cm
Peduncle width: 5.92 cm
Empty nodes on peduncle: 0
Peduncle colour: Light green
Peduncle hairiness: Very hairy, short hairs
Bunch position: Hanging vertically
Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate ($x/y = 0.29$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	White
Anther colour:	Cream
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Curved at middle
Stigma colour:	Orange-gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	270 days
Flowering to harvest:	121 days
Planting to harvest:	391 days
Bunch weight:	14.78 kg
Number of hands per bunch:	8
Number of fruits per bunch:	123
Fruit weight:	101.44 g
Fruit length:	125.74 mm
Fruit width:	36.87 mm
Fruit thickness:	35.25 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Without any floral relicts
Fruit pedicel length:	29.97 mm
Fruit pedicel width:	9.98 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially fused
Mature fruit peel colour:	Yellow-green
Fruit peel thickness:	2.86 mm
Fruit peel weight:	31.15 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	71.39 g
Pulp colour at maturity:	Cream
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	70.37%
Predominant taste:	Mild (slightly tasty)
Pulp TSS:	19.59°Brix



FHIA-17

Passport data

Accession number: 2001-023
Acquisition date: 21-03-2001
Donor name: INIBAP Transit Centre
Type of material received: Rooted plantlets
Status of plant: Advanced cultivar
Donor number: ITC.1264
Genome: AAAA
Pedigree: Female: AAA Gros Michel cv. Highgate
 Male: SH 3362
Purpose: Dessert
Notes: Resistant to Race 1 of fusarium wilt



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.06 m
Pseudostem girth (at 1m):	61.11 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Blue
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Black-purple
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	2.33 cm
Leaf blade length:	250.00 cm
Leaf blade width:	92.94 cm
Leaf ratio:	2.69
Petiole length:	41.78 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Dull
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	3.08 kg
Peduncle length:	66.09 cm
Peduncle width:	6.12 cm
Empty nodes on peduncle:	1
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	With a curve
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Lanceolate ($x/y = 0.27$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Threadlike
Anther exertion:	Exserted
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	Cream
Pigmentation on style:	Without pigmentation
Style exertion:	Inserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	339 days
Flowering to harvest:	106 days
Planting to harvest:	445 days
Bunch weight:	24.12 kg
Number of hands per bunch:	10
Number of fruits per bunch:	144
Fruit weight:	154.79 g
Fruit length:	157.31 mm
Fruit width:	40.16 mm
Fruit thickness:	40.77 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Rounded
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Base of style prominent
Fruit pedicel length:	31.27 mm
Fruit pedicel width:	11.73 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.66 mm
Fruit peel weight:	43.86 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	113.53 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	73.34%
Predominant taste:	Mild (slightly tasty)
Pulp TSS:	18.27°Brix



FHIA-18

Passport data

Accession number: 2001-041
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1319
 Genome:
 Pedigree: Female: AAB Pome cv. Prata Ana
 Male: SH 3142
 Origin: Honduras (FHIA)
 Purpose: Dessert, sweet-acid, apple-like flavour
 Notes: Full sibling of FHIA-01;
 Resistant to black leaf streak



Characterization and evaluation data



Plant general appearance

Leaf habit: Drooping
 Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 2.65 m
 Pseudostem girth (at 1m): 52.47 cm
 Pseudostem colour (external): Light green
 Pseudostem appearance: Shiny
 Predominant underlying colour: Pinkish cream
 Pigmentation of the underlying pseudostem: Pinkish
 Sap colour: Watery
 Wax on leaf sheaths: Moderately waxy

Petiole/midrib/leaf

Blotches at petiole base: Large blotches
 Blotches colour: Dark brown
 Petiole canal leaf III: Wide with erect margins
 Petiole margins: Winged and not clasping pseudostem
 Wing type: Not dry
 Petiole margin colour: Green
 Edge of petiole margin: Colourless
 Petiole margin width: 0.84 cm
 Leaf blade length: 211.67 cm
 Leaf blade width: 69.17 cm
 Leaf ratio: 3.06
 Petiole length: 51.67 cm
 Colour of leaf upper surface: Medium green
 Appearance of leaf upper surface: Dull
 Colour of leaf lower surface: Green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Moderately waxy
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: Both sides rounded
 Leaf corrugation: Few stripes
 Colour of midrib dorsal surface: Yellow
 Colour of midrib ventral surface: Green

Inflorescence/male bud

Peduncle weight: 1.83 kg
 Peduncle length: 45.46 cm
 Peduncle width: 5.86 cm
 Empty nodes on peduncle: 1
 Peduncle colour: Light green
 Peduncle hairiness: Hairless
 Bunch position: Slightly angled
 Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate (x/y = 0.30)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Very few
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Inserted
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	291 days
Flowering to harvest:	115 days
Planting to harvest:	406 days
Bunch weight:	13.90 kg
Number of hands per bunch:	8
Number of fruits per bunch:	106
Fruit weight:	101.09 g
Fruit length:	144.51 mm
Fruit width:	35.58 mm
Fruit thickness:	37.79 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Without any floral relicts
Fruit pedicel length:	28.11 mm
Fruit pedicel width:	10.09 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	3.21 mm
Fruit peel weight:	39.14 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	68.23 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	67.50%
Predominant taste:	Sweet and acidic
Pulp TSS:	18.27°Brix



FHIA-21

Passport data

Accession number: 2001-042
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1332
 Genome: AAAB
 Pedigree: Female: AAB French Plantain cv. AVP-67
 Male: SH 3142
 Purpose: Cooking/dessert (plantain)
 Notes: Resistant to black leaf streak
 Twice as productive as False Horn
 Excellent flavour, but relatively short greenlife



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.16 m
Pseudostem girth (at 1m):	53.88 cm
Pseudostem colour (external):	Brown
Pseudostem appearance:	Shiny
Predominant underlying colour:	Light green
Pigmentation of the underlying pseudostem:	Pink-purple
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse
Blotches colour:	Dark brown
Petiole canal leaf III:	Margins curved inward
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Pink-purple to red
Edge of petiole margin:	With a colour line along
Petiole margin width:	0.60 cm
Leaf blade length:	193 cm
Leaf blade width:	74 cm
Leaf ratio:	2.61
Petiole length:	73 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Few wax
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides pointed
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow green
Colour of midrib ventral surface:	Green
Inflorescence/male bud	
Peduncle weight:	1.25 kg
Peduncle length:	31.40 cm
Peduncle width:	5.41 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Slightly angled
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Truncated
Rachis position:	At an angle
Rachis appearance:	Bare
Male bud type:	Normal (present)
Male bud shape:	Lanceolate
Bract	
Bract base shape:	Large shoulder
Bract apex shape:	Pointed
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Orange yellow
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	Without discoloured lines on external face
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Colour homogenous
Male bract shape:	Lanceolate ($x/y = 2.27$)
Male bract lifting:	Lifting two or more at a time
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderately waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Very few or no visible sign
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Very developed
Free tepal apex shape:	Triangular
Anther exsertion:	Inserted
Filament colour:	Cream
Anther colour:	Cream
Pollen sac colour:	White
Style basic colour:	Cream
Pigmentation on style:	Purple
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Light yellow
Ovary shape:	Arched
Ovary basic colour:	Cream
Ovary pigmentation:	Very few or no visible sign
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	309 days
Flowering to harvest:	128 days
Planting to harvest:	436 days
Bunch weight:	17.24 kg
Number of hands per bunch:	7
Number of fruits per bunch:	93
Fruit weight:	161.79 g
Fruit length:	182.44 mm
Fruit width:	37.09 mm
Fruit thickness:	38.71 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Slightly ridged
Fruit apex:	Lengthily pointed
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	46.64 mm
Fruit pedicel width:	13.16 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partial
Mature fruit peel colour:	Yellow-orange
Fruit peel thickness:	2.18 mm
Fruit peel weight:	38.51 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	123.28 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	76.19%
Predominant taste:	Sweet/astringent
Pulp TSS:	23.79°Brix



FHIA-23

Passport data

Accession number: 2001-035
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1265
 Genome: AAAA
 Pedigree: Female: AAA Gros Michel cv. Highgate
 Male: SH 3362
 Purpose: Dessert
 Notes: Extensively cultivated in Cuba, where it is twice as productive as Cavendish when no fungicides are used for control of black leaf streak
 Resistant to race 1 of fusarium wilt



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.06 m
Pseudostem girth (at 1m):	65.77 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Blue
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Dark brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	1.75 cm
Leaf blade length:	239.26 cm
Leaf blade width:	87.75 cm
Leaf ratio:	2.73
Petiole length:	45.89 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Few wax
Insertion point of leaf blades on petiole:	Asymmetric
Shape of leaf blade base:	One side rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	3.21 kg
Peduncle length:	68.41 cm
Peduncle width:	6.13 cm
Empty nodes on peduncle:	0
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	With a curve
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Small shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Lanceolate ($x/y = 0.27$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Opaque white
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Thread-like
Anther exsertion:	Inserted
Filament colour:	Cream
Anther colour:	Brown
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Black
Ovary shape:	Arched
Ovary basic colour:	Cream
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	386 days
Flowering to harvest:	112 days
Planting to harvest:	499 days
Bunch weight:	23.73 kg
Number of hands per bunch:	10
Number of fruits per bunch:	155
Fruit weight:	120.70 g
Fruit length:	148.27 mm
Fruit width:	34.94 mm
Fruit thickness:	36.05 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Slightly ridged
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	34.78 mm
Fruit pedicel width:	12.50 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.45 mm
Fruit peel weight:	34.58 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	85.57 g
Pulp colour at maturity:	Ivory
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	70.90%
Predominant taste:	Sweet
Pulp TSS:	18.07°Brix



GCTCV-119

Passport data

Accession number: 2001-036
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1282
 Genome: AAA
 Pedigree: Giant Cavendish tissue culture variant
 Purpose: Dessert
 Notes: Sweeter, more starchy texture and darker shiny colour on peel than ordinary Cavendish



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.13 m
Pseudostem girth (at 1m):	37.84 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Pink-purple
Pigmentation of the underlying pseudostem:	Blue
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Dark brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	0.75 cm
Leaf blade length:	210.50 cm
Leaf blade width:	66.75 cm
Leaf ratio:	3.15
Petiole length:	25.75 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Shiny
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides pointed
Leaf corrugation:	Few stripes
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.22 kg
Peduncle length:	39.09 cm
Peduncle width:	5.26 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Orange-Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate (x/y = 0.30)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Very developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	311 days
Flowering to harvest:	98 days
Planting to harvest:	409 days
Bunch weight:	10.36 kg
Number of hands per bunch:	5
Number of fruits per bunch:	73
Fruit weight:	127.65 g
Fruit length:	147.36 mm
Fruit width:	37.79 mm
Fruit thickness:	34.97 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	28.08 mm
Fruit pedicel width:	9.70 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow-green
Fruit peel thickness:	2.68 mm
Fruit peel weight:	34.56 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	92.32 g
Pulp colour at maturity:	Cream
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	78.93%
Predominant taste:	Sweet
Pulp TSS:	23.83°Brix



Gros Michel

Passport data

Accession number: 2001-032
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Farmers' variety
 Donor number: ITC.1122
 Genome: AAA
 Pedigree: Primitive cultivar
 Purpose: Dessert
 Notes: Susceptible to Race 1 of fusarium wilt



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
 Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 3.07 m
 Pseudostem girth (at 1m): 50.48 cm
 Pseudostem colour (external): Green-yellow
 Pseudostem appearance: Shiny
 Predominant underlying colour: Cream to light green
 Pigmentation of the underlying pseudostem: Pink-purple to black
 Sap colour: Watery
 Wax on leaf sheaths: Moderately waxy

Petiole/midrib/leaf

Blotches at petiole base: Large blotches
 Blotches colour: Dark brown
 Petiole canal leaf III: Open with margins spreading
 Petiole margins: Winged and not clasping pseudostem
 Wing type: Dry
 Petiole margin colour: Green
 Edge of petiole margin: With colour
 Petiole margin width: 1.08 cm
 Leaf blade length: 255.11 cm
 Leaf blade width: 73.33 cm
 Leaf ratio: 3.48
 Petiole length: 29.78 cm
 Colour of leaf upper surface: Medium green
 Appearance of leaf upper surface: Shiny
 Colour of leaf lower surface: Medium green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Moderately waxy
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: One side rounded
 Leaf corrugation: Very corrugated
 Colour of midrib dorsal surface: Yellow
 Colour of midrib ventral surface: Light green

Inflorescence/male bud

Peduncle weight: 1.31 kg
 Peduncle length: 34.95 cm
 Peduncle width: 5.07 cm
 Empty nodes on peduncle: 0
 Peduncle colour: Green
 Peduncle hairiness: Very hairy, short hairs
 Bunch position: Hanging vertically
 Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	Horizontal
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate

Bract

Bract base shape:	Medium shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate (x/y = 0.30)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving

Male flower

Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exertion:	Exserted
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exertion:	Same level
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow

Fruits

Planting to flowering:	366 days
Flowering to harvest:	108 days
Planting to harvest:	475 days
Bunch weight:	17.13 kg
Number of hands per bunch:	7
Number of fruits per bunch:	103
Fruit weight:	135.05 g
Fruit length:	147.50 mm
Fruit width:	38.33 mm
Fruit thickness:	37.74 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	29.48 mm
Fruit pedicel width:	11.68 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	3.19 mm
Fruit peel weight:	37.46 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	95.42 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	70.66%
Predominant taste:	Mild
Pulp TSS:	21.38°Brix



Pisang Ceylan

Passport data

Accession number: 2001-046
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Farmers' variety
 Donor number: ITC.0650
 Genome: AAB
 Pedigree: Primitive cultivar
 Purpose: Dessert
 Notes: Resistant to fusarium wilt; used as partially resistant reference clone for fusarium



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
 Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 3.65 m
 Pseudostem girth (at 1m): 63.69 cm
 Pseudostem colour (external): Green-yellow
 Pseudostem appearance: Shiny
 Predominant underlying colour: Green-yellow
 Pigmentation of the underlying pseudostem: Dark brown
 Sap colour: Watery
 Wax on leaf sheaths: Moderately waxy

Petiole/midrib/leaf

Blotches at petiole base: Large blotches
 Blotches colour: Dark brown
 Petiole canal leaf III: Wide with erect margins
 Petiole margins: Winged and clasping pseudostem
 Wing type: Dry
 Petiole margin colour: Green
 Edge of petiole margin: With colour
 Petiole margin width: 1.14 cm
 Leaf blade length: 250.00 cm
 Leaf blade width: 83.11 cm
 Leaf ratio: 3.01
 Petiole length: 52.00 cm
 Colour of leaf upper surface: Green
 Appearance of leaf upper surface: Shiny
 Colour of leaf lower surface: Medium green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Moderately waxy
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: Both sides rounded
 Leaf corrugation: Very corrugated
 Colour of midrib dorsal surface: Yellow
 Colour of midrib ventral surface: Light green

Inflorescence/male bud

Peduncle weight: 1.85 kg
 Peduncle length: 40.02 cm
 Peduncle width: 6.01 cm
 Empty nodes on peduncle: 0
 Peduncle colour: Green
 Peduncle hairiness: Very hairy, short hairs
 Bunch position: Slightly angled
 Bunch shape: Cylindrical

Bunch appearance:	Compact
Rachis type:	Present
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Lanceolate ($x/y = 0.27$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Gray
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exsertion:	Exserted
Style shape:	Curved at base
Stigma colour:	Orange
Ovary shape:	Straight
Ovary basic colour:	Yellow
Ovary pigmentation:	With red-purple
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	267 days
Flowering to harvest:	98 days
Planting to harvest:	365 days
Bunch weight:	17.04 kg
Number of hands per bunch:	11
Number of fruits per bunch:	181
Fruit weight:	69.87 g
Fruit length:	96.90 mm
Fruit width:	34.82 mm
Fruit thickness:	35.46 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Rounded
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Without any floral relicts
Fruit pedicel length:	34.11 mm
Fruit pedicel width:	9.98 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Totally fused
Mature fruit peel colour:	Yellow
Fruit peel thickness:	1.34 mm
Fruit peel weight:	11.58 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	55.17 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	78.95%
Predominant taste:	Sweet
Pulp TSS:	20.71°Brix



Pisang Jari Buaya

Passport data

Accession number: 2001-025
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Farmers' variety
 Donor number: ITC.0312
 Genome: AA
 Pedigree: Primitive cultivar
 Purpose: Dessert
 Notes:



Characterization and evaluation data



Plant general appearance

Leaf habit:	Erect
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.16 m
Pseudostem girth (at 1m):	38.31 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Pink-purple
Pigmentation of the underlying pseudostem:	Dark brown
Sap colour:	Watery
Wax on leaf sheaths:	Very little
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.77 cm
Leaf blade length:	322.17 cm
Leaf blade width:	70.96 cm
Leaf ratio:	4.54
Petiole length:	41.17 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Shiny
Wax on leaves:	Very little or no visible signs of wax
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Even, smooth
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.13 kg
Peduncle length:	31.03 cm
Peduncle width:	5.00 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Compact
Rachis type:	Truncated
Rachis position:	Horizontal
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate

Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Whitish
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Ovate ($x/y = 0.32$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving

Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Opaque white
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Rusty brown
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Yellow
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream

Fruits	
Planting to flowering:	280 days
Flowering to harvest:	92 days
Planting to harvest:	372 days
Bunch weight:	10.13 kg
Number of hands per bunch:	8
Number of fruits per bunch:	128
Fruit weight:	69.86 g
Fruit length:	134.87 mm
Fruit width:	30.53 mm
Fruit thickness:	29.66 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Slightly ridged
Fruit apex:	Lengthily pointed
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	24.64 mm
Fruit pedicel width:	13.21 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Totally fused
Mature fruit peel colour:	Bright yellow
Fruit peel thickness:	2.22 mm
Fruit peel weight:	18.74 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	50.21 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	71.87%
Predominant taste:	Sweet/acidic
Pulp TSS:	24.61°Brix



SH 3436-9

Passport data

Accession number: 2001-037
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1283
 Genome: AAAA
 Pedigree: Somaclonal variant of SH 3436 (Highgate x SH 3142)
 Purpose: Dessert
 Notes:



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Drooping
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.27 m
Pseudostem girth (at 1m):	65.46 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Blue
Sap colour:	Watery
Wax on leaf sheaths:	Very waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Dark brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	1.10 cm
Leaf blade length:	204.75 cm
Leaf blade width:	97.25 cm
Leaf ratio:	2.11
Petiole length:	24.75 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Dull
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Few wax
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow green
Colour of midrib ventral surface:	Medium green
Inflorescence/male bud	
Peduncle weight:	2.47 kg
Peduncle length:	46.69 cm
Peduncle width:	6.80 cm
Empty nodes on peduncle:	0
Peduncle colour:	Light green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Truncated
Rachis position:	With a curve
Rachis appearance:	Male flowers/bracts above male bud
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Old bracts overlap at apex
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Lanceolate ($x/y = 0.25$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling with the bract
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Translucent white
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Very developed
Free tepal apex shape:	Thread-like
Anther exsertion:	Inserted
Filament colour:	White
Anther colour:	Brown/rusty brown
Pollen sac colour:	Cream
Style basic colour:	Cream
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Black
Ovary shape:	Arched
Ovary basic colour:	Cream
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	397 days
Flowering to harvest:	112 days
Planting to harvest:	509 days
Bunch weight:	20.14 kg
Number of hands per bunch:	8
Number of fruits per bunch:	128
Fruit weight:	128.60 g
Fruit length:	141.85 mm
Fruit width:	37.96 mm
Fruit thickness:	38.94 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Rounded
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	31.81 mm
Fruit pedicel width:	12.21 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.28 mm
Fruit peel weight:	32.79 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	96.17 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	74.78%
Predominant taste:	Slightly tasty
Pulp TSS:	20.87°Brix



SH 3640

Passport data

Accession number: 2001-040
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1307
 Genome: AAAB
 Pedigree: Female: AAB Pome cv. Dwarf Prata
 Male: SH 3393
 Purpose: Dual purpose, sweet acid dessert and cooking banana
 Notes: Similar to FHIA-01 but better flavour and fruit remains firm
 Tolerant to black leaf streak
 Green fruit easy to peel, with good texture when boiled



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.78 m
Pseudostem girth (at 1m):	57.15 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Dark brown/blue
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	0.81 cm
Leaf blade length:	224.88 cm
Leaf blade width:	75.50 cm
Leaf ratio:	2.98
Petiole length:	40.13 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.95 kg
Peduncle length:	54.40 cm
Peduncle width:	5.61 cm
Empty nodes on peduncle:	1
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Slightly angled
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate ($x/y = 0.30$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Yellow
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Curved at mid point
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	280 days
Flowering to harvest:	100 days
Planting to harvest:	380 days
Bunch weight:	18.03 kg
Number of hands per bunch:	7
Number of fruits per bunch:	90
Fruit weight:	156.46 g
Fruit length:	153.82 mm
Fruit width:	42.10 mm
Fruit thickness:	41.39 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	29.08 mm
Fruit pedicel width:	9.48 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Totally fused
Mature fruit peel colour:	Yellow
Fruit peel thickness:	3.35 mm
Fruit peel weight:	51.54 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	111.37 g
Pulp colour at maturity:	Cream
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	71.18%
Predominant taste:	Sweet/acidic
Pulp TSS:	21.15°Brix



TMBx 1378

Passport data

Accession number: 2001-038
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1296
 Pedigree: Female: Pisang Awak cv. Fougamou
 Male: *M. balbisiana* (1-63)
 Purpose: Cooking
 Notes: Synonym: BITA-2
 High yield
 Highly resistant to black leaf streak



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.48 m
Pseudostem girth (at 1m):	66.23 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Purple
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Margins overlapping
Petiole margins:	Winged and clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.90 cm
Leaf blade length:	240.50 cm
Leaf blade width:	75.67 cm
Leaf ratio:	3.18
Petiole length:	58.17 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Yellow
Inflorescence/male bud	
Peduncle weight:	2.41 kg
Peduncle length:	72.21 cm
Peduncle width:	5.60 cm
Empty nodes on peduncle:	2
Peduncle colour:	Light green
Peduncle hairiness:	Hairless
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	With a curve
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate

Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Orange-red
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Intermediate ($x/y = 0.29$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Strongly grooved

Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Presence of pink
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Little or no visible sign of development
Free tepal apex shape:	Triangular
Anther exertion:	Inserted
Filament colour:	Yellow
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exertion:	Exserted
Style shape:	Straight
Stigma colour:	Yellow
Ovary shape:	Straight
Ovary basic colour:	White
Ovary pigmentation:	Very few or no visible sign of pigmentation
Dominant colour of male flower:	Yellow

Fruits	
Planting to flowering:	367 days
Flowering to harvest:	147days
Planting to harvest:	513 days
Bunch weight:	15.36 kg
Number of hands per bunch:	7
Number of fruits per bunch:	123
Fruit weight:	86.33 g
Fruit length:	93.87 mm
Fruit width:	36.12 mm
Fruit thickness:	40.15 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Slightly ridged
Fruit apex:	Pointed
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	32.65 mm
Fruit pedicel width:	10.68 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Totally fused
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.24 mm
Fruit peel weight:	22.12 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	64.57 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	74.80% (including seeds)
Predominant taste:	Sweet
Pulp TSS:	24.56°Brix



TMBx 5295-1

Passport data

Accession number: 2001-039
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Advanced cultivar
 Donor number: ITC.1297
 Pedigree: Female: AAB Laknau cv. Laknau
 Male: Tjau lagada
 Purpose: Cooking
 Notes: Synonym: BITA-3
 High yielding
 Resistant to black leaf streak
 Low Banana Streak Virus symptom incidence



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.29 m
Pseudostem girth (at 1m):	54.02 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Pink-purple
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Dark brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.90 cm
Leaf blade length:	219.67 cm
Leaf blade width:	66.67 cm
Leaf ratio:	3.30
Petiole length:	50.33 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.56 kg
Peduncle length:	46.26 cm
Peduncle width:	5.12 cm
Empty nodes on peduncle:	1
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	With a curve
Rachis appearance:	Neutral flowers, few hands
Male bud type:	Normal (present)
Male bud shape:	Lanceolate
Bract	
Bract base shape:	Large shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Lanceolate ($x/y = 0.24$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Strongly grooved
Male flower	
Male flower behaviour:	Falling with the bract
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Very few
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Little or no visible sign of development
Free tepal apex shape:	Triangular
Anther exsertion:	Inserted
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Same level
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	Cream
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	411 days
Flowering to harvest:	108 days
Planting to harvest:	519 days
Bunch weight:	17.64 kg
Number of hands per bunch:	7
Number of fruits per bunch:	86
Fruit weight:	210.22 g
Fruit length:	200.74 mm
Fruit width:	43.20 mm
Fruit thickness:	40.67 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	46.30 mm
Fruit pedicel width:	12.41 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.45 mm
Fruit peel weight:	55.86 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	151.46 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	72.05%
Predominant taste:	Sweet/acidic
Pulp TSS:	23.46°Brix



Williams (Bell, South Johnstone)

Passport data

Accession number: 2001-030
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Farmers' variety
 Donor number: ITC.0570
 Genome: AAA
 Pedigree: Primitive cultivar, Cavendish
 Purpose: Dessert
 Notes: Susceptible to Race 4 of fusarium wilt



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
 Dwarfism: Dwarf

Pseudostem

Pseudostem height (at maturity): 2.06 m
 Pseudostem girth (at 1m): 55.77cm
 Pseudostem colour (external): Dark brown
 Pseudostem appearance: Shiny
 Predominant underlying colour: Pinkish
 Pigmentation of the underlying pseudostem: Blue
 Sap colour: Milky
 Wax on leaf sheaths: Very few wax

Petiole/midrib/leaf

Blotches at petiole base: Sparse blotching
 Blotches colour: Dark brown
 Petiole canal leaf III: Open with margins spreading
 Petiole margins: Winged and not clasping pseudostem
 Wing type: Not dry
 Petiole margin colour: Green
 Edge of petiole margin: With a colour line along
 Petiole margin width: 0.85 cm
 Leaf blade length: 171.67 cm
 Leaf blade width: 85.33 cm
 Leaf ratio: 2.01
 Petiole length: 22.50 cm
 Colour of leaf upper surface: Green
 Appearance of leaf upper surface: Dull
 Colour of leaf lower surface: Green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Few wax
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: Both sides rounded
 Leaf corrugation: Few stripes
 Colour of midrib dorsal surface: Yellow
 Colour of midrib ventral surface: Green

Inflorescence/male bud

Peduncle weight: 1.73 kg
 Peduncle length: 35.37 cm
 Peduncle width: 6.01 cm
 Empty nodes on peduncle: 0
 Peduncle colour: Green
 Peduncle hairiness: Very hairy, short hairs
 Bunch position: Hanging vertically
 Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Pink-purple
Colour of bract internal face:	Orange-red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate (x/y = 0.3)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderately waxy
Presence of grooves on the bract:	Moderately grooving
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Cream
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exsertion:	Same level
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	244 days
Flowering to harvest:	101 days
Planting to harvest:	345 days
Bunch weight:	15.74 kg
Number of hands per bunch:	8
Number of fruits per bunch:	140
Fruit weight:	95.33 g
Fruit length:	123.95 mm
Fruit width:	33.99 mm
Fruit thickness:	34.11 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	31.61 mm
Fruit pedicel width:	10.37 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Bright yellow
Fruit peel thickness:	2.42 mm
Fruit peel weight:	27.63 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	66.72 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Soft
Edible portion:	67.99%
Predominant taste:	Sweet
Pulp TSS:	19.53°Brix



Yangambi Km 5

Passport data

Accession number: 2001-033
 Acquisition date: 21-03-2001
 Donor name: INIBAP Transit Centre
 Type of material received: Rooted plantlets
 Status of plant: Farmers' variety
 Donor number: ITC.1123
 Genome: AAA
 Pedigree: Primitive cultivar, Ibota
 Purpose: Dessert
 Notes: Highly resistant to fusarium wilt, black leaf streak and Sigatoka; Ibota – means "many small fruits"



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Erect
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.19 m
Pseudostem girth (at 1m):	55.39 cm
Pseudostem colour (external):	Light green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Pink
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Small blotches
Blotches colour:	Dark brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	0.84 cm
Leaf blade length:	218.40 cm
Leaf blade width:	67.60 cm
Leaf ratio:	3.23
Petiole length:	37.40 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	1.30 kg
Peduncle length:	23.69 cm
Peduncle width:	6.02 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Slightly hairy
Bunch position:	Horizontal to erect
Bunch shape:	Cylindrical

Bunch appearance:	Compact
Rachis type:	Truncated
Rachis position:	Horizontal
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Large shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Lanceolate ($x/y = 0.20$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderately grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Very few
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Thread-like
Anther exsertion:	Exserted
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	Green
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	430 days
Flowering to harvest:	141 days
Planting to harvest:	571 days
Bunch weight:	8.42 kg
Number of hands per bunch:	7
Number of fruits per bunch:	148
Fruit weight:	40.67 g
Fruit length:	72.75 mm
Fruit width:	28.38 mm
Fruit thickness:	31.59 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Rounded
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	19.50 mm
Fruit pedicel width:	10.15 mm
Pedicel surface:	Hairy
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	1.55 mm
Fruit peel weight:	9.70 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	30.57 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	75.16%
Predominant taste:	Sweet (slightly acidic)
Pulp TSS:	24.23°Brix



Local cultivars

Buñgulan

Passport data

Accession number: 2004-005
 Acquisition date: 04/04/2002
 Donor name: Lapanday Agricultural and Development Corporation
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AAA
 Local names: Buñgulan (Bicol), Buluñgan (Cebu), Balañgon (Negros Occidental, Iloilo)
 Purpose: Dessert



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
 Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 2.68 m
 Pseudostem girth (at 1m): 41.33 cm
 Pseudostem colour (external): Blue
 Pseudostem appearance: Shiny
 Predominant underlying colour: Red-purple
 Pigmentation of the underlying pseudostem: Pink-purple to red
 Sap colour: Watery
 Wax on leaf sheaths: Moderately waxy

Petiole/midrib/leaf

Blotches at petiole base: Large blotches
 Blotches colour: Dark brown
 Petiole canal leaf III: Open with margins spreading
 Petiole margins: Winged and not clasping pseudostem
 Wing type: Dry
 Petiole margin colour: Green
 Edge of petiole margin: Colourless
 Petiole margin width: 1.17 cm
 Leaf blade length: 239.60 cm
 Leaf blade width: 67.60 cm
 Leaf ratio: 3.54
 Petiole length: 26.10 cm
 Colour of leaf upper surface: Medium green
 Appearance of leaf upper surface: Shiny
 Colour of leaf lower surface: Medium green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Moderately waxy
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: Both sides rounded
 Leaf corrugation: Very corrugated
 Colour of midrib dorsal surface: Yellow
 Colour of midrib ventral surface: Light green

Inflorescence/male bud

Peduncle weight: 1.52 kg
 Peduncle length: 43.25 cm
 Peduncle width: 5.20 cm
 Empty nodes on peduncle: 0
 Peduncle colour: Green
 Peduncle hairiness: Very hairy, short hairs
 Bunch position: Hanging vertically
 Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Slightly pointed
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Purple
Colour of bract internal face:	Pink-purple
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate ($x/y = 0.28$)
Male bract lifting:	Lifting one at a time
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exertion:	Exserted
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exertion:	Inserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Straight
Ovary basic colour:	White
Ovary pigmentation:	With red-purple
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	298 days
Flowering to harvest:	106 days
Planting to harvest:	404 days
Bunch weight:	14.03 kg
Number of hands per bunch:	6
Number of fruits per bunch:	103
Fruit weight:	124.01 g
Fruit length:	145.32 mm
Fruit width:	35.67 mm
Fruit thickness:	41.33 mm
Fruit shape (longitudinal curvature):	Straight in the distal part
Transverse section of fruit:	Rounded
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	27.83 mm
Fruit pedicel width:	10.42 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Bright yellow
Fruit peel thickness:	2.26 mm
Fruit peel weight:	31.98 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	91.22 g
Pulp colour at maturity:	Ivory
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	73.56%
Predominant taste:	Sweet
Pulp TSS:	21.55°Brix



Cardaba

Passport data

Accession number: 2004-005
 Acquisition date: 04/04/2002
 Donor name: Lapanday Agricultural and Development Corporation
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: BBB
 Local name: Cadisnon (northern Mindanao)
 Purpose: Cooking
 Notes: Very similar to Saba, but more vigorous, with longer bunch and fruit



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	4.01 m
Pseudostem girth (at 1m):	68.00 cm
Pseudostem colour (external):	Medium green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Light green
Pigmentation of the underlying pseudostem:	Dark brown
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Margins curved inward
Petiole margins:	Winged and clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.91 cm
Leaf blade length:	291.00 cm
Leaf blade width:	84.83 cm
Leaf ratio:	3.43
Petiole length:	51.67 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very waxy
Insertion point of leaf blades on petiole:	Asymmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Even, smooth
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	2.33 kg
Peduncle length:	56.63 cm
Peduncle width:	6.01 cm
Empty nodes on peduncle:	2
Peduncle colour:	Light green
Peduncle hairiness:	Hairless
Bunch position:	Slightly angled
Bunch shape:	Asymmetric

Bunch appearance:	Compact
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate

Bract

Bract base shape:	Small shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Orange-red
Colour of bract internal face:	Red
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Homogenous
Male bract shape:	Ovate ($x/y = 0.37$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Strongly grooved

Male flower

Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Orange
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Rounded
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Little or no visible sign of development
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	Yellow
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Exserted
Style shape:	Curved at base
Stigma colour:	Bright yellow
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow

Fruits

Planting to flowering:	401 days
Flowering to harvest:	174 days
Planting to harvest:	575 days
Bunch weight:	19.50 kg
Number of hands per bunch:	8
Number of fruits per bunch:	135
Fruit weight:	129.53 g
Fruit length:	110.18 mm
Fruit width:	42.39 mm
Fruit thickness:	50.20 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Pronounced ridges
Fruit apex:	Rounded
Remains of flower relicts at fruit apex:	Base of the style prominent
Fruit pedicel length:	29.53 mm
Fruit pedicel width:	13.50 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	3.49 mm
Fruit peel weight:	50.48 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	78.31 g
Pulp colour at maturity:	Cream
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	60.46%
Predominant taste:	Astringent
Pulp TSS:	24.91°Brix



Cavendish (Grand Naine)

Passport data

Accession number: 2004-003
 Acquisition date: 04/04/2002
 Donor name: Lapanday Agricultural and Development Corporation
 Type of material received: Rooted plantlets
 Status of plant: Farmer's variety
 Genome: AAA
 Purpose: Dessert
 Notes: Cultivar for export



Characterization and evaluation data



Plant general appearance

Leaf habit: Intermediate
 Dwarfism: Normal

Pseudostem

Pseudostem height (at maturity): 2.14 m
 Pseudostem girth (at 1m): 44.88 cm
 Pseudostem colour (external): Light green
 Pseudostem appearance: Shiny
 Predominant underlying colour: Pink-purple/Red-purple
 Pigmentation of the underlying pseudostem: Red
 Sap colour: Milky
 Wax on leaf sheaths: Moderately to very waxy

Petiole/midrib/leaf

Blotches at petiole base: Sparse blotching
 Blotches colour: Dark brown
 Petiole canal leaf III: Open with margins spreading
 Petiole margins: Winged and not clasping pseudostem
 Wing type: Dry
 Petiole margin colour: Pink-purple to red
 Edge of petiole margin: With a colour line along
 Petiole margin width: 2.15 cm
 Leaf blade length: 195.00 cm
 Leaf blade width: 83.61 cm
 Leaf ratio: 2.33
 Petiole length: 22.51 cm
 Colour of leaf upper surface: Green to medium green
 Appearance of leaf upper surface: Shiny
 Colour of leaf lower surface: Medium to light green
 Appearance of leaf lower surface: Dull
 Wax on leaves: Moderately waxy
 Insertion point of leaf blades on petiole: Symmetric
 Shape of leaf blade base: Both sides pointed
 Leaf corrugation: Very corrugated
 Colour of midrib dorsal surface: Light green
 Colour of midrib ventral surface: Light green

Inflorescence/male bud

Peduncle weight: 1.76 kg
 Peduncle length: 41.56 cm
 Peduncle width: 5.78 cm
 Empty nodes on peduncle: 0
 Peduncle colour: Light green
 Peduncle hairiness: Very hairy, short hairs
 Bunch position: Hanging vertically
 Bunch shape: Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	With a curve
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts greatly overlap
Colour of bract external face:	Purple
Colour of bract internal face:	Whitish
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate (x/y = 0.3)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very few wax
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling after the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Simple folding under apex
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	Cream
Anther colour:	Yellow
Pollen sac colour:	White
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Same level
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Straight
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	312 days
Flowering to harvest:	106 days
Planting to harvest:	418 days
Bunch weight:	14.73 kg
Number of hands per bunch:	8
Number of fruits per bunch:	122
Fruit weight:	88.33 g
Fruit length:	140.13 mm
Fruit width:	31.64 mm
Fruit thickness:	30.40 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	25.22 mm
Fruit pedicel width:	9.80 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow/Bright green
Fruit peel thickness:	2.13 mm
Fruit peel weight:	23.94 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	61.15 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous to persistent
Flesh texture:	Soft
Edible portion:	69.23%
Predominant taste:	Sweet
Pulp TSS:	21.23°Brix



Cuarenta Dias

Passport data

Accession number: 2004-008
 Acquisition date: 17/1/2001
 Donor name: Institute of Plant Breeding, UPLB
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AA
 Local names: Arnibal (Negros Occidental), Monkoy (Negros Oriental and Mansaka), Señorita (Laguna), Sarot-sut (Bicol), Cariños (Abra), Lunsuranon (Surigao)

Purpose: Dessert
 Note: *Cuarenta dias* is a Spanish phrase which literally translates to "40 days" - the number of days from flowering to fruiting for this variety.



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.44 m
Pseudostem girth (at 1m):	42.19 cm
Pseudostem colour (external):	Medium green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Pink-purple
Pigmentation of the underlying pseudostem:	Pink-purple
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Large blotches
Blotches colour:	Brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Pink-purple to red
Edge of petiole margin:	With colour
Petiole margin width:	1.12 cm
Leaf blade length:	213.17 cm
Leaf blade width:	64.00 cm
Leaf ratio:	3.33
Petiole length:	37.08 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	One side rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Yellow
Inflorescence/male bud	
Peduncle weight:	1.31 kg
Peduncle length:	45.56 cm
Peduncle width:	5.00 cm
Empty nodes on peduncle:	1
Peduncle colour:	Light green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	At an angle
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Yellow or green
Colour on the bract apex:	Tinted with yellow
Colour stripes on bract:	With discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate ($x/y = 0.29$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Translucent white
Free tepal shape:	Fan shape
Free tepal appearance:	More or less smooth
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Inserted
Filament colour:	Cream
Anther colour:	Pink/Pink-purple
Pollen sac colour:	Cream
Style basic colour:	Cream
Pigmentation on style:	Purple
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Black
Ovary shape:	Arched
Ovary basic colour:	Brown
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	231 days
Flowering to harvest:	54 days
Planting to harvest:	285 days
Bunch weight:	8.08 kg
Number of hands per bunch:	7
Number of fruits per bunch:	113
Fruit weight:	54.89 g
Fruit length:	85.57 mm
Fruit width:	33.50 mm
Fruit thickness:	33.37 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Rounded
Fruit apex:	Bottle-necked
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	20.31 mm
Fruit pedicel width:	7.92 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Yellow
Fruit peel thickness:	1.34 mm
Fruit peel weight:	13.42 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	45.10 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Deciduous
Flesh texture:	Soft
Edible portion:	82.17%
Predominant taste:	Mild to sweet
Pulp TSS:	20.32°Brix



Lakatan (Cavite)

Passport data

Accession number: 2004-007
 Acquisition date: 04/04/2002
 Donor name: Institute of Plant Breeding, UPLB
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AA
 Local name: Mapang (Misamis Occidental)
 Purpose: Dessert



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.06 m
Pseudostem girth (at 1m):	49.42 cm
Pseudostem colour (external):	Yellow
Pseudostem appearance:	Dull
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Pink-purple
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Wide with erect margins
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.88 cm
Leaf blade length:	239.50 cm
Leaf blade width:	73.00 cm
Leaf ratio:	3.28
Petiole length:	39.83 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Very little
Insertion point of leaf blades on petiole:	Asymmetric
Shape of leaf blade base:	Both sides pointed
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Light green to yellow
Colour of midrib ventral surface:	Light green
Inflorescence/male bud	
Peduncle weight:	2.09 kg
Peduncle length:	55.35 cm
Peduncle width:	5.87 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Ovate ($x/y = 0.32$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Very few
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exertion:	Exserted
Filament colour:	White
Anther colour:	White
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exertion:	Inserted
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow
Fruits	
Planting to flowering:	311 days
Flowering to harvest:	90 days
Planting to harvest:	402 days
Bunch weight:	13.81 kg
Number of hands per bunch:	7
Number of fruits per bunch:	109
Fruit weight:	113.53 g
Fruit length:	125.63 mm
Fruit width:	36.34 mm
Fruit thickness:	36.06 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	28.22 mm
Fruit pedicel width:	12.38 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Partially fused
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.66 mm
Fruit peel weight:	31.49 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	83.65 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	73.68%
Predominant taste:	Sweet
Pulp TSS:	26.07°Brix



Lakatan (Davao)

Passport data

Accession number: 2004-006
 Acquisition date: 04/04/2002
 Donor name: Lapanday Agricultural and Development Corporation
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AA
 Purpose: Dessert



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	3.07 m
Pseudostem girth (at 1m):	50.89 cm
Pseudostem colour (external):	Red-purple
Pseudostem appearance:	Shiny
Predominant underlying colour:	Cream
Pigmentation of the underlying pseudostem:	Red-purple
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Dark brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Dry
Petiole margin colour:	Green
Edge of petiole margin:	Colourless
Petiole margin width:	0.77 cm
Leaf blade length:	279.67 cm
Leaf blade width:	70.17 cm
Leaf ratio:	3.99
Petiole length:	30.67 cm
Colour of leaf upper surface:	Medium green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Medium green
Inflorescence/male bud	
Peduncle weight:	2.05 kg
Peduncle length:	47.51 cm
Peduncle width:	5.84 cm
Empty nodes on peduncle:	0
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Present
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers on whole stalk without persistent bracts
Male bud type:	Normal (present)
Male bud shape:	Intermediate

Bract

Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Purple
Colour of bract internal face:	Red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate ($x/y = 0.28$)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Moderate
Presence of grooves on the bract:	Moderate grooving

Male flower

Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Purple
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Orange
Ovary shape:	Arched
Ovary basic colour:	Yellow
Ovary pigmentation:	Very few
Dominant colour of male flower:	Yellow

Fruits

Planting to flowering:	361 days
Flowering to harvest:	110 days
Planting to harvest:	471 days
Bunch weight:	17.93 kg
Number of hands per bunch:	7
Number of fruits per bunch:	124
Fruit weight:	112.98 g
Fruit length:	135.28 mm
Fruit width:	34.56 mm
Fruit thickness:	41.24 mm
Fruit shape (longitudinal curvature):	Straight
Transverse section of fruit:	Rounded
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	26.76 mm
Fruit pedicel width:	12.14 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Very partially or none
Mature fruit peel colour:	Orange
Fruit peel thickness:	2.77 mm
Fruit peel weight:	29.12 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Without cracks
Flesh weight:	83.82 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	74.19%
Predominant taste:	Sweet
Pulp TSS:	26.20°Brix



Lakatan (Mindoro I)

Passport data

Accession number: 2004-008
 Acquisition date: 17/12/2001
 Donor name: Institute of Plant Breeding, UPLB
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AA
 Purpose: Dessert



Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.93 m
Pseudostem girth (at 1m):	45.53 cm
Pseudostem colour (external):	Yellow
Pseudostem appearance:	Shiny
Predominant underlying colour:	Pinkish to light green
Pigmentation of the underlying pseudostem:	Red to brown
Sap colour:	Watery
Wax on leaf sheaths:	Moderately waxy
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping pseudostem
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	0.79 cm
Leaf blade length:	242.80 cm
Leaf blade width:	63.00 cm
Leaf ratio:	3.85
Petiole length:	34.40 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Medium green
Inflorescence/male bud	
Peduncle weight:	1.81 kg
Peduncle length:	61.55 cm
Peduncle width:	5.36 cm
Empty nodes on peduncle:	1
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Truncated
Rachis position:	Falling vertically
Rachis appearance:	Neutral flowers, withered bracts on whole stalk
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Orange-red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Very prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	x/y = 0.3
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Falling before the bract
Compound tepal basic colour:	Cream to yellow
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Translucent white
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exertion:	Exserted
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	Cream
Pigmentation on style:	Without pigmentation
Style exertion:	Inserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	322 days
Flowering to harvest:	99 days
Planting to harvest:	421 days
Bunch weight:	11.31 kg
Number of hands per bunch:	6
Number of fruits per bunch:	81
Fruit weight:	103.45 g
Fruit length:	121.76 mm
Fruit width:	32.94 mm
Fruit thickness:	30.48 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Slightly ridged
Fruit apex:	Blunt-tipped
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	11.09 mm
Fruit pedicel width:	11.78 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Partially fused
Mature fruit peel colour:	Orange
Fruit peel thickness:	2.20 mm
Fruit peel weight:	24.88 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	77.08 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	74.51%
Predominant taste:	Sweet
Pulp TSS:	25.12°Brix



Lakatan (Mindoro II)

Passport data

Accession number: 2004-012
 Acquisition date: 04/04/2002
 Donor name: Institute of Plant Breeding, UPLB
 Type of material received: Potted-out plantlets
 Status of plant: Farmer's variety
 Genome: AA
 Purpose: Dessert

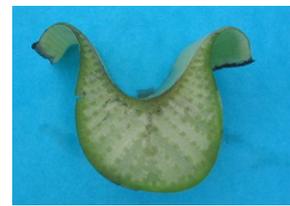


Characterization and evaluation data



Plant general appearance	
Leaf habit:	Intermediate
Dwarfism:	Normal
Pseudostem	
Pseudostem height (at maturity):	2.64 m
Pseudostem girth (at 1m):	42.52 cm
Pseudostem colour (external):	Light/Yellow-green
Pseudostem appearance:	Shiny
Predominant underlying colour:	Pinkish
Pigmentation of the underlying pseudostem:	Dark brown
Sap colour:	Watery
Wax on leaf sheaths:	Very few wax
Petiole/midrib/leaf	
Blotches at petiole base:	Sparse blotching
Blotches colour:	Brown
Petiole canal leaf III:	Open with margins spreading
Petiole margins:	Winged and not clasping
Wing type:	Not dry
Petiole margin colour:	Green
Edge of petiole margin:	With colour
Petiole margin width:	0.75 cm
Leaf blade length:	335.50 cm
Leaf blade width:	63.50 cm
Leaf ratio:	5.28
Petiole length:	35.75 cm
Colour of leaf upper surface:	Green
Appearance of leaf upper surface:	Shiny
Colour of leaf lower surface:	Medium green
Appearance of leaf lower surface:	Dull
Wax on leaves:	Moderately waxy
Insertion point of leaf blades on petiole:	Symmetric
Shape of leaf blade base:	Both sides rounded
Leaf corrugation:	Very corrugated
Colour of midrib dorsal surface:	Yellow
Colour of midrib ventral surface:	Medium green
Inflorescence/male bud	
Peduncle weight:	1.75 kg
Peduncle length:	63.25 cm
Peduncle width:	5.24 cm
Empty nodes on peduncle:	1
Peduncle colour:	Green
Peduncle hairiness:	Very hairy, short hairs
Bunch position:	Hanging vertically
Bunch shape:	Cylindrical

Bunch appearance:	Lax
Rachis type:	Truncated
Rachis position:	Falling vertically
Rachis appearance:	Male flowers/bracts above male bud
Male bud type:	Normal (present)
Male bud shape:	Intermediate
Bract	
Bract base shape:	Medium shoulder
Bract apex shape:	Intermediate
Bract imbrication:	Young bracts slightly overlap
Colour of bract external face:	Red-purple
Colour of bract internal face:	Orange-red
Colour on the bract apex:	Not tinted with yellow
Colour stripes on bract:	Without discoloured lines
Bract scars on rachis:	Not prominent
Fading of colour on bract base:	Discontinuing
Male bract shape:	Intermediate (x/y = 0.3)
Male bract lifting:	Lifting two or more
Bract behaviour before falling:	Revolute
Wax on the bract:	Very waxy
Presence of grooves on the bract:	Moderate grooving
Male flower	
Male flower behaviour:	Neutral/male flower persistent
Compound tepal basic colour:	Cream
Compound tepal pigmentation:	Rust-coloured spots
Lobe colour of compound tepal:	Yellow
Lobe development of compound tepal:	Developed
Free tepal colour:	Tinted with yellow
Free tepal shape:	Oval
Free tepal appearance:	Several folding under apex (corrugated)
Free tepal apex development:	Developed
Free tepal apex shape:	Triangular
Anther exsertion:	Same level
Filament colour:	White
Anther colour:	Yellow
Pollen sac colour:	Cream
Style basic colour:	White
Pigmentation on style:	Without pigmentation
Style exsertion:	Inserted
Style shape:	Straight
Stigma colour:	Gray
Ovary shape:	Arched
Ovary basic colour:	White
Ovary pigmentation:	Very few
Dominant colour of male flower:	Cream
Fruits	
Planting to flowering:	325 days
Flowering to harvest:	95 days
Planting to harvest:	420 days
Bunch weight:	9.51 kg
Number of hands per bunch:	6
Number of fruits per bunch:	77
Fruit weight:	102.96 g
Fruit length:	137.05 mm
Fruit width:	37.67 mm
Fruit thickness:	36.93 mm
Fruit shape (longitudinal curvature):	Curved
Transverse section of fruit:	Rounded
Fruit apex:	Rounded
Remains of flower relicts at fruit apex:	Persistent style
Fruit pedicel length:	28.07 mm
Fruit pedicel width:	11.38 mm
Pedicel surface:	Hairless
Fusion of pedicels:	Partially fused
Mature fruit peel colour:	Yellow
Fruit peel thickness:	2.42 mm
Fruit peel weight:	34.27 g
Adherence of the fruit peel:	Fruit peels easily
Cracks in the fruit peel:	Cracked
Flesh weight:	74.38 g
Pulp colour at maturity:	Yellow
Fruits fall from hands:	Persistent
Flesh texture:	Firm
Edible portion:	72.24%
Predominant taste:	Sweet
Pulp TSS:	27.74°Brix



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