



Republic of the Philippines
VISAYAS STATE UNIVERSITY
 Visca, Baybay City, Leyte

PURCHASE REQUEST

PR No.: TF-2024-12-03279

Date: 12-06-2024

PPMP No. : PPMP-2024-101424-0533

Category: **Laboratory
Supplies**

Dept./Office: **NCRC-V**Section/End-User: **Jerrel Ann L. Lesidan**

Project Title/Code: **Marker Development for Coconut
Hybridity Testing for Efficient Hybrid Seed Production
in Eastern Visayas/20201050-1.121**

Funding Source: **Trust Fund**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	10x TBE Buffer, 500 ml	btl	2	3,900.00		7,800.00

Specification:

biotechnology grade

2	2-Mercaptoethanol or ?-Mercaptoethanol	btl	1	5,184.00		5,184.00
---	--	-----	---	----------	--	----------

Specification:**Molecular Biology Grade Reagent**

- **Assay Quality:** 99% purity
- **Applications:** Suitable for electrophoresis and cell culture
- **Certifications:** DNase-free, RNase-free, and protease-free
- **Packaging:** Bottle of at least 50 mL

3	95% Ethyl Alcohol, Technical Grade (Gallon)	gallon	2	800.00		1,600.00
---	---	--------	---	--------	--	----------

Specification:

95% Ethyl Alcohol, Technical Grade (Gallon)

4	Acrylamide/Bis-acrylamide solution 30% (29:1)	500ml/bot	2	5,000.00		10,000.00
---	---	-----------	---	----------	--	-----------

Specification:**Composition:**

Acrylamide/Bis-acrylamide Solution 30% (29:1) solution is prepared from highly pure nuclease free electrophoresis grade acrylamide and bis-acrylamide in ultrapure water and finally filtered through a 0.2 µm filter. Properties: Appearance Clarity DNase & RNase Sterility Suitability test

Storage conditions:

Appearance: Colorless solution

Clarity: Clear and free of particles

DNase and RNase: None detected No bacterial or fungal growth is observed after 14 days of incubation

Suitability test: This solution has been tested and is suitable for use in PAGE.

Storage Conditions:

Acrylamide/Bis-acrylamide Solution 30% (29:1) has to be stored at 2 - 8 °C and should be protected from light. Under recommended condition, the reagent is stable for 12 months.

5	Ammonium persulfate	btl	2	4,345.00		8,690.00
---	----------------------------	-----	---	----------	--	----------

Specification:

- Molecular biology, at least 99.0% assay quality
- Suitable for protein analysis, SDS-PAGE and Western blot
- DNases and RNases free
- Phosphatases and proteases free
- Solid form
- Bottle of at least 25g

6	Benchtop Cooling Block	piece	2	3,000.00		6,000.00
---	-------------------------------	-------	---	----------	--	----------

Specification:

1. Polycarbonate construction with rubber non-slip feet
2. Number of wells: 12
3. Tube sizes fit: 0.5-2.0 ml
4. Temperature: -20 °C
5. Temp retention: -15 °C for 1 hr
6. Dimensions: 5.7 x 4.1 x 3.9 in (14.5 x 10.5 x 10 cm)
7. Color: Any

7	Certified Molecular Biology Agarose, 500 g	btl	1	78,100.00		78,100.00
---	---	-----	---	-----------	--	-----------

Specification:

Use Certified Molecular Biology Agarose for routine separations. This agarose has high strength so gels are easy to handle even at low agarose percentages.

- For routine separations of ~100 bp to 20 kb
- Genetic quality tested (GQT) grade
- Guaranteed to be free of DNA binders, inhibitors, DNases, and RNases
- Very low gel background staining
- Very high gel strength and high exclusion limit
- Very low sulfate content

8	Chemical respiratory mask	pc	2	1,400.00		2,800.00
---	----------------------------------	----	---	----------	--	----------

Specification:

Features:

- Lightweight
- Flexible system (gas/vapor and/or particulate filters plus supplied-air option)
- Hypo-allergenic facepiece material
- Easy to use

- Well-balanced, fits different head crowns
- Low maintenance
- Economical

9	Chloroform 2.5L	btl	1	4,000.00		4,000.00
---	-----------------	-----	---	----------	--	----------

Specification:

Analytical Reagent Grade 2.5L per bottle

10	CTAB (Cetyl Trimethylammonium Bromide), molbio grade, 500g/bottle	500ml/bot	2	4,000.00		8,000.00
11	Disposable Vinyl Nitrile Examination Gloves, 100pcs, Large	Box of 100's	4	280.00		1,120.00
12	Disposable Vinyl Nitrile Examination Gloves, 100pcs, Medium	Box of 100's	4	270.00		1,080.00
13	Disposable Vinyl Nitrile Examination Gloves, 100pcs, Small	Box of 100's	5	250.00		1,250.00
14	Disposable Vinyl Nitrile Examination Gloves, 100pcs, XS	Box of 100's	5	250.00		1,250.00
15	EDTA (ethylenediaminetetraacetic acid), 500g/bot	500ml/bot	2	4,000.00		8,000.00
16	Ethanol/Ethyl Alcohol, 70%, Laboratory Grade, 3.8 L	gallon	2	2,000.00		4,000.00

Specification:

- Ethanol, 70%, Laboratory Grade, 3.8 L
- **Synonym:** Ethyl alcohol
- **Formula:** CH₃CH₂OH
- **Formula Wt:** 46.07
- **CAS:** 64-17-5

Notes: Completely denatured; green chemistry substitute for methanol

17	EZ Load 1 kb Molecular Ruler	tube	1	18,000.00		18,000.00
----	------------------------------	------	---	-----------	--	-----------

Specification:

500 uL, 0.08 ug/uL, ready-to-load DNA standard, 1-15 kb, 15 bands, includes 1 mL 5x nucleic acid sample buffer, 100 applications

18	EZ Load 100 bp Molecular Ruler	tube	2	17,700.00		35,400.00
----	--------------------------------	------	---	-----------	--	-----------

Specification:

500 uL, 0.05 ug/uL, ready to load DNA standard, 100-1000 bp, 10 bands, includes 1 mL x 5x nucleic acid sample buffer, 100 applications

19	Filter Pipette Tips, Bulk in resealable bags, PP 1-20 uL	pack	3	3,500.00		10,500.00
----	--	------	---	----------	--	-----------

Specification:

Bevelled Graduated, Natural, 1000/pack

20	Gel Red Stain	tubes	1	8,000.00		8,000.00
----	---------------	-------	---	----------	--	----------

Specification:

- **Format:**
 - 10,000X in water
 - 1X in water
- **Excitation/Emission:** 551/625 nm (with dsDNA)
- **DNA/RNA Dye:** DNA dye
- **Storage Conditions:**
 - Store at room temperature
 - Protect from light
- **Assay Type/Options:** DNA/RNA gel staining

Features:

- **Staining Performance:** Superior dsDNA staining in polyacrylamide gels
- **Gel Penetration:** Formulated for efficient penetration of polyacrylamide gel
- **Safety:** Safer than EtBr; non-mutagenic and non-hazardous for disposal
- **Usage:**
 - Simple pre- and post-electrophoresis gel staining
 - No destaining required
- **Compatibility:**
 - Use with standard EtBr imaging equipment or optical settings
 - Compatible with downstream gel purification, restriction digest, sequencing
- **Pack Size:** 0.5 mL

21	Isoamyl Alcohol Mol Grade	btl	1	3,000.00		3,000.00
----	----------------------------------	-----	---	----------	--	----------

Specification:

- **Grade:** Molecular/Laboratory Grade
- **Volume:** 500 mL

22	Isopropanol-reagent grade	btl	1	4,000.00		4,000.00
----	----------------------------------	-----	---	----------	--	----------

Specification:

- **Quantity:** 1 L
- **Purity:** 99%
- **Grade:** Reagent Grade
- **Packaging:** Bottle

23	Kimwipes, small (4.4" x 8.4")	pack	7	800.00		5,600.00
24	Lab Gown Long Sleeves M	pcs	3	500.00		1,500.00

Specification:

- ?Lab Coat High-quality White
- ?Long Sleeves
- ?Medium size

25	Liquid Nitrogen (50 L)	L	50	500.00		25,000.00
----	-------------------------------	---	----	--------	--	-----------

Specification:

- Molecular weight 28
- Melting point -210°C

Boiling point-196°C

Critical temperature-147°C

Relative density, gas 0.97 (air=1)

Relative density, liquid 0.8 (water = 1)

Vapour Pressure Not applicable 20°C

Solubility mg/l water 20 mg/l

Appearance/Colour Colourless gas

Odour No odour

warning properties Other data Gas/vapour heavier than air.

May accumulate in confined spaces, particularly at or below ground level

26	Liquid Nitrogen Tank (30L)	tank	2	30,000.00		60,000.00
----	-----------------------------------	------	---	-----------	--	-----------

Specification:

Key Features

- High-Quality Material
- The Dewar tank is made of aviation aluminum, which has the characteristics of high hardness, corrosion resistance, and low-temperature resistance. It is an ideal low-temperature device material.
- Excellent Thermal Insulation
- The compound heat insulation of the inner liquid nitrogen tank makes the storage more durable.
- Lockable Cover & PU Stopper
- The lock cover protects the safety of stored samples and prevents liquid nitrogen from being spilled by accident; the inside of the bottle stopper is made of PU, which is wear-resistant, heat-resistant, and low-temperature resistant.
- Vacuum Protection Plug
- The silicone vacuum nozzle protects and seals the vacuum environment.

27	Loading dye, 6x, 3x1mL	tube	2	3,000.00		6,000.00
28	Microcentrifuge tubes, PP 0.5 mL	pack	5	1,000.00		5,000.00

Specification:

1000/pack

29	Microcentrifuge tubes, PP 1.5 mL	pack	5	700.00		3,500.00
----	---	------	---	--------	--	----------

Specification:

1000/pack

30	Microcentrifuge tubes, PP 2.0 mL	pack	4	800.00		3,200.00
----	---	------	---	--------	--	----------

Specification:

1000/pack

31	Mortar and Pestle (small)	pc	10	300.00		3,000.00
----	----------------------------------	----	----	--------	--	----------

Specification:

Mortar and Pestle (small)						
32	N,N,N',N'-Tetramethylethylenediamine (TEMED)	btl	1	6,427.00		6,427.00
Specification: • Molecular biology, at least 99.0% assay quality • Suitable for protein analysis, SDS-PAGE and Western blot • DNases and RNases free • Phosphatases and proteases free • Liquid form • Bottle of at least 25mL						
33	nanodrop 2000/2000c spectrophotometer	unit	1	1,060,000.00		1,060,000.00
Specification: Sample Information: • Sample Volume: 0.5 µL • Sample Number: 1 • Path Length: 1 mm (auto-ranging to 0.05 mm) Light and Wavelength: • Light Type: 2048-element linear, Silicon CCD Array • Wavelength Range: 190 - 840 nm • Wavelength Accuracy: ± 1 nm • Spectral Resolution: < 1.8 nm (FWHM at HG 253.7 nm) Absorbance and Detection: • Absorbance Range: 0.02 - 300 (10 mm equivalent) • Detection Limit: 2 ng/µL (dsDNA) • Measurement Time: < 5 seconds Physical Dimensions: • Footprint: 14 x 20 cm • Sample Pedestal Material: 303 stainless steel & Quartz fiber Operating Specifications: • Operating Voltage: 12 VDC • Operating Power Consumption: 12 - 18 W (max 30 W) • Standby Power Consumption: 5 W Software and Compatibility: • Software Compatibility: Windows XP and Vista (32 bit)						

Additional Features:

- Increased dynamic range for dilute samples (e.g., down to 0.4 ng/μL for ssDNA)
- Supports measurements for bacterial cultures and OD measurements for bacterial cultures
- Built-in stirring capability
- Temperature control at 37 °C
- Pre-programmed methods for:
 - ssDNA
 - dsDNA
 - RNA
 - oligoDNA
 - oligoRNA
 - Microarray (fluorescently labeled nucleic acid)
 - Protein
- Wireless capabilities, including Bluetooth for connecting keyboard & mouse

34	PCR kit for 1500 reactions	set	1	120,000.00		120,000.00
Specification: Standard-Convenient-Value Components: Taq DNA Polymerase, 2mM dNTPs Mix, 6X Loading Dye, 50mM MgCl ₂ , Buffers						
35	PCR Plates family, 96 well, standard well	pack	2	4,000.00		8,000.00
Specification: unskirted standard well, 25 plates						
36	PCR primers for SSR	set	121	2,000.00		242,000.00
Specification: reverse and forward primers, 19-21 bases						
37	PCR Workup rack, PP 96 well PCR plates	pack	2	2,000.00		4,000.00
Specification: 96 place for individual PCR tube, 12 x 8-well PCR strips						
38	Pipette Tips (20 ul)	packs	4	500.00		2,000.00
Specification: ?20 ul capacity ?autoclavable ?100 pcs per pack						
39	Pipette Tips, Bulk in Resealable Bags , PP 100-1000 uL	pack	3	500.00		1,500.00

Specification: Blue, 500/ pack						
40	Pipette tips, bulk resealable bags PP 0.1- 10 uL	pack	6	800.00		4,800.00
Specification: Graduated, Natural, 1000/pack						
41	Pipette tips, bulk resealable bags, 1-200 uL	pack	4	800.00		3,200.00
Specification: Bevelled Graduated, Yellow, 1000/pack						
42	Pipette Tips, sterile racked, PP 1- 200 uL	boxes	4	3,240.00		12,960.00
Specification: Bevelled Graduated, Yellow, 10 racks x 96 pcs						
43	Pipette tips, sterile racked, PP 100- 1000 uL	boxes	4	3,100.00		12,400.00
Specification: Graduated, Blue, 10 racks x 96 pcs						
44	Pipettes tips, sterile racked, PP 0.1-10 uL	boxes	4	3,240.00		12,960.00
Specification: Graduated, Natural, 10 racks x 96 pcs						
45	Premium Plus Pipettes Fully - Autoclavable Set	set	1	35,000.00		35,000.00
Specification: Inclusive of: PP 0.1-2.5 uL, 0.5-10 uL 10-100 uL, 100-1000 uL, pipette rack stand (carousel type)						
46	Run Safe-500 Stain	tube	2	4,500.00		9,000.00
Specification: RunSAFE is a non-mutagenic fluorescent reagent that produces instant visualization of DNA bands upon Blue Light or UV illumination of agarose gels. - Supplied in 6X DNA Loading Buffer - Contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking the DNA migration during the electrophoresis process - Ideal for the environment requiring a safe , non-hazardous alternative to Ethidium Bromide - Store at 4°C up to 12 months. For longer periods, store at -20°C - runSAFE Dye is light sensitive and should be stored protected from light.						
47	sodium chloride, technical grade	kgs	3	500.00		1,500.00

TOTAL				1,876,321.00
Purpose: For project use				
Checked by:		Funds Available:		
 GENESIS C. ALBARICO		 NICK FREDDY R. BELLO		
TWG - Laboratory Supplies		(OIC) HEAD, ACCOUNTING OFFICE 		
Signature:	Prepared by:	Noted by:	Approved by:	
	 APRIL JOY S. VERGARA	 JOVANNEMAR P. ANIBE	 PROSE IVY G. YEPES	
Printed Name:	JERRELIAN L. LESIDAN			
Designation:	PROJECT TECHNICAL AIDE VI	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU	