



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

PURCHASE REQUEST

PR No.: TF-2024-12-03278

Date: 12-06-2024

PPMP No. : PPMP-2024-101424-0533

Category: **Laboratory
Equipment**

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	Microcentrifuge Rack with Cover, Reversible (2 mL/ 1.5 mL)	unit	5	850.00		4,250.00

Specification:

Specifications:

- **Material:** Polypropylene (PP)
- **Features:** Autoclavable, excellent chemical and temperature resistance
- **Rack Capacities:**
 - **80-Place:** For 1.5 mL and 2.0 mL tubes
 - **60-Place:** For 0.5 mL and 0.2 mL tubes
- **Usage:** Suitable for benchtop use or freezer storage
- **Includes:** Lid or cover

2	Mini-Protean Tetra Vertical Electrophoresis Cell, 4-gel, for 1.0 mm thick handcast gels, with Powerp	set	1	500,000.00		500,000.00
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Specification:

Specifications:

Number of Gels:

- 1-4 gels

Precast Gels:

- Mini-Protean precast gels

Handcast Gels:

- Cast using Mini-Protean spacer plates or Mini-Protean

Cassette Size (WxL):

- Precast: 10 x 8.3 cm

Glass Plate Size (WxL):

- Short Plate: 10.1 x 7.3 cm
- Spacer Plate: 10.1 x 8.2 cm

Total Buffer Volume:

- 2 gels: 800 mL
- 4 gels: 1000 mL

Typical Run Times for SDS-PAGE:

- Mini-Protean TGX gels: 15-20 minutes (at 300V)
- Ready Gel/Handcast gels: 35-45 minutes (at 200V)

Dimensions (WxLxH):

- 12 x 16 x 18 cm

Weight:

- 1.0 kg (2.2 lb)

Gel Sizes:

- Ready Gel: 8.3 x 6.4 cm
- Other: 8.6 x 6.7 cm

Number of Gels/Cassette:

- 1

Number of Cassettes/Modules:

- 2

Casting Stand:

- Polycarbonate

Pin, Retaining Ring, and Spring:

- Stainless steel

Casting Frames:

- Polysulfone

Gray Gaskets:

- Thermoplastic rubber (gray)

Electrode Assembly:

- Glass-filled polybutylene terephthalate

Electrodes:

- Platinum wire, 0.010 inches diameter

Mini Tank and Lid:

- Polycarbonate

Sample Loading Guides:

- Delrin

Combs:

- Polycarbonate

Voltage Limit:

- 600 V DC and 30 W

Recommended Power Supply:

- Powerpack

Components of Mini-Protean:

- Five (5) 10-well combs
- One (1) set of glass plates (5 short plates and 5 spacer plates)
- Two (2) casting stands
- Four (4) casting frames
- Five (5) gel releasers
- Sample loading guide
- Electrode assembly
- Mini-Protean Tetra companion running module
- Tank
- Lid with power cables
- Mini cell buffer dam
- Powerpack
- TGX stain-free fastcast acrylamide starter kit, 10%

Other Inclusions:

- One (1) unit AVR (1 kVA)
- One (1) unit Precision Plus Protein All Blue Prestained Protein Standard, 500 µL
- One (1) bottle 10x Tris, Glycine, SDS Buffer, 1 L
- One (1) bottle Ammonium Persulphate, 10 g
- One (1) bottle TEMED, 5 mL
- One (1) bottle Coomassie Stain, 1 L
- One (1) pack Gel Staining Trays, package of 4

3	Mini-Sub Cell GT Horizontal Electrophoresis System and PowerPac Basic Power Supply	unit	1	384,000.00		384,000.00
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Specification:

Mini horizontal electrophoresis system, includes 8- and 15-well combs, gel caster, 7 x 10 cm (W x L) UV-transparent tray, basic power supply (1645050)

Product Contents

- Buffer tank
- Lid with cables
- 7 x 10 cm tray
- Leveling bubble
- 8- and 15-well combs
- Gel caster
- PowerPac Basic Power Supply

GT base footprint (l x w x h) 25.5 x 9.2 x 5.6 cm

GT base buffer volume 265-320 mL

GT base gel size 7 x 7 cm

Gel tray sizes 7 x 10 cm

Construction:

GT base Molded clear plastic

Gel casting gates Aluminum

Safety lid Molded clear plastic

Electrode wire guard Molded polycarbonate

Banana plugs Gold plated brass, 4.4 cm length

Electrodes Platinum, 0.25 mm diameter

Electrical cables Dual, 20 AWG, tinned copper wire cable
Flame-retardant polyurethane insulation jacket

Electrical leads Nickel silver

Gel tray UV -transparent acrylic plastic (UVTP)

Combs Molded plastic and machined acrylic

Gel casting device Polycarbonate
0.64 cm silicon foam

PowerPac Basin Output Specifications

Input Power

Nominal 100-120/220-240 VAC, 50 or 60 Hz

Actual 90-132 or 198-264 VAC , 50 Or 60 Hz

Fuses 2.5 A, 250 VAC, 5 mm x 20 mm, Type T

Input power cord 3-wire; grounded

Output (programmable)

Voltage 10 V to 300 V, fully adjustable in 1 V steps

Voltage accuracy $\pm 2\%$ of reading or 3 volts, whichever is more

Current 4 mA to 400 mA, fully adjustable in 1 mA steps

Current accuracy $\pm 2\%$ of reading or 3 mA, whichever is more

Power (maximum) 75 W

Terminals 4-pair recessed banan jacks, floating in parallel

Timer control 001 to 999 minutes, fully adjustable

Ripple $<1\%$ @ 300 V and 70 W

Line regulation $<1\%$ @ 300 V and 70 W, 90-132 or 198-264 VAC

Load regulation $<1\%$ @ 300 V for 50% change in output load

Drift $<1\%$ @ after 15 min warm up at 300 V and 70 W

Noise 55 dBA at 1 meter

Readouts stability

Volts = 1V

Current = 1mA

Inclusions:

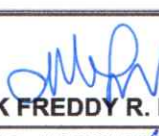
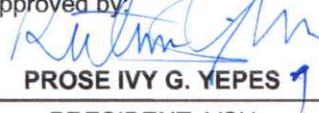
1. Buffer tank
2. Lid with cables
3. Gel caster
4. UV - transparent plastic (UVTP) Tray, 7 x 10 cm
5. 8-well comb, fixed height, 1.5 mm thickness
6. 15-well comb, fixed height, 1.5 mm thickness
7. PowerPac Basic Power Supply

Other Inclusion:

1. Automatic Voltage Regulator, 1 kVA 1 unit
2. Certified Molecular Biology Agarose, 25 g
3. 50x Tris/ Acetic Acid/ EDTA (TAE), Nucleic Acid Electrophoresis Buffer, 1L
4. EZ Load 100 bp Molecular ruler, 500 uL
5. UView 6x Loading dye, 1 mL

4	PCR Tubes, 0.2 ml, 1000pcs/pack, clear	pack	4	3,000.00		12,000.00
TOTAL						900,250.00

Purpose: For project use

Checked by:		Funds Available:	
 GENESIS C. ALBARICO		 NICK FREDDY R. BELLO	
TWG - Laboratory Equipment		(OIC) HEAD, ACCOUNTING OFFICE	
Signature:	Prepared by:	Noted by:	Approved by:
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Printed Name:	JERREL ANN L. LESIDAN	JOVANNEMAR P. ANDRE	PROSE IVY G. YEPES
Designation:	PROJECT TECHNICAL AIDE VI	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU