



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of Laboratory Chemicals and Supplies (GOODS-21-35)

Government of the Republic of the Philippines

August 16, 2021; 9:00 AM
Cooperative Building, VSU Market, Visca, Baybay City,
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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

STFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



INVITATION TO BID FOR SUPPLY AND DELIVERY OF LABORATORY CHEMICALS AND SUPPLIES

- The *Visayas State University – Main Campus* through the *GF, STF, and TF 2021* intends to apply the sum of *Five Million Three Hundred Sixty-Eight Thousand Eighty-Eight Pesos (PhP 5,368,088.00)* being the ABC to payments under the contract for *Supply and Delivery of Laboratory Chemicals and Supplies (GOODS-21-32)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University – Main Campus*, through the *GF, STF, and TF 2021* intends to apply the following ABC per item to payments under the contract for each item, to wit:

Item No.	Description	Unit	Qty	ABC/Unit	Total ABC
1	0.1-2.5ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	pc	1	7,000.00	7,000.00
2	0.5-10 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	pc	1	7,000.00	7,000.00
3	0.5-10 μ L pipette tips (white)	unit	6	1,000.00	6,000.00
4	1 mm Stage Micrometer with 10 μ m Divisions	pc	1	11,000.00	11,000.00
	■R1L3S2P - 1 mm Stage Micrometer with 10 μ m Divisions, 3" x 1", Soda Lime Glass				
5	1.0 μ m Polystyrene microspheres (5 ml)/ Catalog No.: 112	pc	2	7,000.00	14,000.00
6	1.5 μ m Polystyrene microspheres (5 ml)/ Catalog No.: 123	pc	2	7,000.00	14,000.00
7	10 ml Type 1, class A borosilicate glass Beaker	pcs	4	250.00	1,000.00
8	10 ml Type 1, class A borosilicate glass Graduated Cylinder	pcs	2	250.00	500.00
9	100 ml Type 1, class A borosilicate glass Beaker	pcs	4	500.00	2,000.00
10	100 ml Type 1, class A borosilicate glass test tube	pcs	5	100.00	500.00
11	100 mm glass petri dish	pcs	55	330.00	18,150.00
12	1000- 5000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	pc	1	7,000.00	7,000.00
13	1000 ml Type 1, class A borosilicate glass Beaker	pcs	7	1,000.00	7,000.00
14	1000 μ L pipette tips (Blue)	unit	15	350.00	5,250.00
15	100mm Funnel Short Stem, Glass	pc	1	1,190.00	1,190.00
16	10-100 ul Single Channel Pipettor, fully autoclavable	pc	1	14,950.00	14,950.00
17	125 ml Erlenmeyer flask	pcs	3	400.00	1,200.00
18	2.5 μ m Polystyrene microspheres (5 ml)/ Catalog No.: 139	pc	2	7,000.00	14,000.00
19	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	pc	1	7,000.00	7,000.00
20	200 ul Standard tip graduated (Yellow)	unit	11	500.00	5,500.00
21	200 μ L pipette tips (Yellow)	unit	4	350.00	1,400.00
22	20-200 ul Single Channel Pipettor, fully autoclavable	pc	1	14,950.00	14,950.00
23	Delicate Task Wipes	boxes	33	800.00	26,400.00

	<ul style="list-style-type: none"> 4.4 x 8.4 inches (11 x 21 cm) 280 sheets/box lint-free 				
24	22 mm x 22 mm cover slip (0.13- 0.16 mm thickness)	boxes	2	500.00	1,000.00
25	2-20 ul Single Channel Pipettor, fully autoclavable	pc	1	14,950.00	14,950.00
26	24 mm x 50mm cover glass (0.13- 0.17 mm thickness)	boxes	30	200.00	6,000.00
27	25 ml Type 1, class A borosilicate glass Beaker	pcs	4	400.00	1,600.00
28	250 ml Type 1, class A borosilicate glass Beaker	pcs	2	600.00	1,200.00
29	250 mm glass stirring rod	pcs	3	125.00	375.00
30	3 layer Non-woven surgical face mask	boxes	10	200.00	2,000.00
31	4-Nitrophenol or p-Nitrophenol	Vial	1	5,615.00	5,615.00
	<ul style="list-style-type: none"> Analytical standard, Powder or crystal form, HPLC suitable Vial of 1g 				
32	4-well Chamber Slide w/ removable well	pack	1	17,200.00	17,200.00
33	50 mL High Clarity PP Centrifuge Tube, Conical Bottom, Sterile, 25pcs/bag	bags	7	1,250.00	8,750.00
34	50 ml Type 1, class A borosilicate glass Beaker	pcs	4	400.00	1,600.00
35	500 ml Type 1, class A borosilicate glass Beaker	pcs	7	700.00	4,900.00
36	5000 ul pipette tips (Neutral)	unit	5	2,300.00	11,500.00
37	96 well plates, polypropylene	pack	1	18,500.00	18,500.00
38	Acetone	gal	1	2,500.00	2,500.00
	<ul style="list-style-type: none"> Acetone, Technical Grade 1gal 				
39	Acrylamide	btl	2	27,500.00	55,000.00
	<ul style="list-style-type: none"> Molecular biology grade, at least ≥99.0% assay quality Suitable for protein analysis and electrophoresis Dnase-free and Rnase-free Bottle of at least 500g 				
40	Adipogenesis Differentiation Kit	pack	2	28,500.00	57,000.00
	<ul style="list-style-type: none"> Molecular Biology grade Suitable for mammalian cell culture Liquid form ≤ 50 EU/ml endotoxin level High glucose NO HEPES and phenol red With adipogenesis supplements Kit of at least 100mL basal medium and 10mL supplement 				
41	Agar Agar	kilos	3	2,800.00	8,400.00
42	Alcohol Burner	btl	10	170.00	1,700.00
	<ul style="list-style-type: none"> Burner Lamp Clear Glass Lab 150mL 				
43	Alcohol, Denatured	gallons	16	253.00	4,048.00
44	Alcohol, Ethyl, 75% solution, 1 gallon	gallon	1	600.00	600.00
45	Alcohol, Ethyl, 95% (Tech)	liters	20	115.00	2,300.00
46	Alginate Acid Sodium Salt, Powder, 500g/btl	btl	7	29,250.00	204,750.00
47	Aluminum Burette Clip Titration Clamp	pc	1	500.00	500.00
48	Amber Glass Bottles with Dropper (100ml)	btls	10	150.00	1,500.00
	<ul style="list-style-type: none"> compatible with the 50 ml capacity Glass Burette materials is Aluminum 				
49	Ammonium Chloride, Analytical Grade, 500g/btl	btl	1	1,500.00	1,500.00
	<ul style="list-style-type: none"> AR grade, 500g per bottle 				
50	Ammonium persulfate	btl	1	4,345.00	4,345.00

	<i>Molecular biology; at least ≥98.0% assay quality</i> <i>Suitable for protein analysis, SDS-PAGE and Western blot</i> <i>DNases and RNases free</i> <i>Phosphatases and proteases free</i> <i>Solid form</i> <i>Bottle of at least 25g</i>				
51	Ammonium Phosphate Dibasic	btl	1	2,500.00	2,500.00
	<input type="checkbox"/> Analytical Grade <input type="checkbox"/> 500 G bottle				
52	Ammonium Sulfate	btl	1	1,500.00	1,500.00
	<input type="checkbox"/> Anhydrous <input type="checkbox"/> Lab grade/ Analytical reagent grade <input type="checkbox"/> Expiration date (3 years from the delivery date) <input type="checkbox"/> Packed in Teflon bottles				
53	Analytical Balance (500/0.001 g)	pc	1	14,950.00	14,950.00
	<i>Lab Analytical Balance Scale 0.001g</i>				
54	Automatic Oil Press Extractor Machine (2L)	pc	1	14,950.00	14,950.00
	<i>Automatic Oil Press Extractor Machine (220 V)</i>				
55	Bacillus Agar Medium	btl	1	30,000.00	30,000.00
	<input type="checkbox"/> Powder form <input type="checkbox"/> 500 G <input type="checkbox"/> Suitable as differential medium for rapid identification of <i>Bacillus</i> species				
56	Beaker, Glass, 100mL	pc	24	500.00	12,000.00
	<input type="checkbox"/> 100mL capacity, borosilicate glass				
57	Beaker, Glass, 2000mL	pc	5	1,000.00	5,000.00
	<input type="checkbox"/> 2000mL capacity, borosilicate glass				
58	Beaker, Glass, 250mL	pc	12	400.00	4,800.00
	<input type="checkbox"/> Low Form Beaker <input type="checkbox"/> Borosilicate Glass <input type="checkbox"/> Transparent Beaker <input type="checkbox"/> Thickened With Spout				
59	Binocular	pc	1	5,500.00	5,500.00
	<input type="checkbox"/> preferably 7-10X magnification; 35-50 exit pupil <input type="checkbox"/> waterproof, fog proof, weather resistant				
60	Bis-acrylamide	btl	1	16,300.00	16,300.00
	<input type="checkbox"/> Molecular biology grade, ≥99.5% assay quality <input type="checkbox"/> Suitable for protein analysis and electrophoresis <input type="checkbox"/> Dnase-free and Rnase-free <input type="checkbox"/> Bottle of at least 100g				
61	Boric Acid, Analytical Reagent	kgs	1	2,500.00	2,500.00
62	Bovine Calf Serum	btl	1	2,500.00	2,500.00
	<input type="checkbox"/> Molecular biology grade <input type="checkbox"/> Suitable for mammalian cell culture <input type="checkbox"/> Hemoglobin, ≤35 mg/dL; ≤10 EU/mL endotoxin <input type="checkbox"/> Sterile-filtered <input type="checkbox"/> Bottle of at least 100mL				
63	Brush for cleaning 250mL Erlenmeyer Flask	pc	3	250.00	750.00
	<input type="checkbox"/> Bristle Color: White Bristle <input type="checkbox"/> Brush+Handle Length: 12" <input type="checkbox"/> Brush Diameter: 1 3/8" <input type="checkbox"/> Brush Length: 3 1/2" <input type="checkbox"/> Suitable for cleaning 250mL Erlenmeyer Flask				
64	Buffer Solution pH 10	btl	1	2,500.00	2,500.00
65	Buffer Solution pH 4	btl	1	2,500.00	2,500.00

66	Buffer solution, pH 7, 1000 ml.	btl	4	1,000.00	4,000.00
67	Buffer solution, pH 9, 1000 ml.	btl	1	1,000.00	1,000.00
68	C/EBPα polyclonal antibody, unconjugated	Vial	1	35,500.00	35,500.00
	<ul style="list-style-type: none"> ☐C/EBPα polyclonal antibody, unconjugated ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Concentration: 1 mg/mL ☐Vial of 100ug 				
69	C/EBPβ polyclonal antibody, unconjugated	Vial	1	39,000.00	39,000.00
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Vial of at least 100uL 				
70	Calcium Bromide	btl	1	2,712.00	2,712.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
71	Calcium Chloride	kgs	3	2,000.00	6,000.00
	☐AR Grade, 500g				
72	Calcium Chloride Dihydrate	btl	3	2,000.00	6,000.00
	<ul style="list-style-type: none"> ☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards ☐Chemical must be plant tissue culture tested for at least 20 years ☐ISO complaint ☐ACS REAG ☐PH EUR ☐meets USP Standards ☐Bioreagent suitable for cell culture ☐500g 				
73	Calcium Phosphate	btl	1	1,500.00	1,500.00
	<ul style="list-style-type: none"> ☐Analytical Grade ☐500 G bottle 				
74	Caspase 3 polyclonal antibody, unconjugated	Vial	1	39,000.00	39,000.00
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Concentration: 0.5 mg/mL ☐Vial of at least 100uL ☐unconjugated 				
75	Cell Counting Dye	btl	1	4,150.00	4,150.00

	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Suitable for all types of cell lines ☐Microscopic counting or machine counting compatible ☐Colorimetric detection method ☐Sufficient for at least 750 counts (10 µl/count) ☐Contains at least 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution ☐Bottle of 100mL, sterile filtered" 				
76	Cell Culture Dissociation Reagents	btl	1	9,100.00	9,100.00
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Suitable for all types of adherent cell lines ☐EDTA chelators, free of animal-derived components ☐No inhibitors needed to deactivate activity ☐Liquid form ☐Tested for In vitro bioassay ☐No phenol red ☐Bottle of 500mL 				
77	Centrifuge (Conical) Tubes, 15mL Capacity	pack	6	950.00	5,700.00
	<ul style="list-style-type: none"> ☐With graduations and marking spot. ☐Screwcap (plugseal) ☐Sterile. RNase-/DNase-free. ☐Non-pyrogenic ☐Polyethylene terephthalate (PET) material ☐At least 3600 centrifugal force (x g) ☐Pack of 50 Tubes 				
78	Centrifuge (Conical) Tubes, 50mL Capacity	pack	6	1,050.00	6,300.00
	<ul style="list-style-type: none"> ☐With graduations and marking spot. ☐Screwcap (plugseal) ☐Sterile. RNase-/DNase-free. ☐Non-pyrogenic ☐Polyethylene terephthalate (PET) material ☐At least 3600 centrifugal force (x g) ☐Pack of 25 Tubes 				
79	Cesium Fluoride	btl	1	2,375.00	2,375.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
80	Chemiluminescence reagent	pack	3	7,100.00	21,300.00
	<ul style="list-style-type: none"> ☐Detection level: Low-picogram to high-femtogram ☐HRP (Horseradish Peroxidase) Substrate; 2°: 1:20-100K (10-50ng/mL), 1°: 1:1K (0.2- 1µg/mL) ☐Pack of 20mL 				
81	Cloth bag, pouch type	pc	75	40.00	3,000.00
	☐9x7 inch, preferably cream color				
82	Cobalt Chloride	btl	1	8,000.00	8,000.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
83	Cryogenic tube with screw and cap	pack	1	22,550.00	22,550.00
	☐volume 5 mL, with external thread, self-standing, RNase and DNase free, sterile, 1000 EA per pack				

84	Culture Tube, 70 mL capacity	boxes	2	14,850.00	29,700.00
	<ul style="list-style-type: none"> ■ Rimless ■ Borosilicate glass ■ 25x200mm ■ Round-bottom, 50pcs/box 				
85	DAPI Fluorescent Stain	pack	1	16,000.00	16,000.00
	<ul style="list-style-type: none"> ■ Molecular Biology grade ■ Mammalian cell culture suitable ■ Cell-Impermeant ■ Sub Cellular Localization: Nucleus ■ Excitation/Emission: 360/460 ■ Pack of 6 bottles x 2.5mL per bottle 				
86	Dessicator, Glass	pc	2	14,000.00	28,000.00
	■ Dessicator, Glass, 300mm (12")				
87	Dextrose, Powder, AR, 250g/btl	btl	1	6,000.00	6,000.00
88	Dial Caliper	pc	2	3,800.00	7,600.00
	<ul style="list-style-type: none"> ■ Dial face scales in Decimal Inch (black) and Metric (red). ■ Hardened stainless steel throughout. ■ Inside, outside, step and depth measurement. ■ Raised sliding surface prevents wear and defacement of graduations. ■ Covered, stainless steel rack. ■ Ranges available: 6"/ 150mm, 8"/200mm, 12"/300mm ■ Graduation: .001"/.02mm ■ Shock Proof: Shock-Proof offers increased accuracy over standard gear configurations. It is equipped with a dual heavy duty springs to control anti-backlash. Backlash is the amount of clearance between mated gear teeth in the caliper controls that prevents the gear teeth from jamming. The shock proof mechanism will keep our caliper for years of continuous use 				
89	Digital thermometer with thermocouple	pc	1	12,000.00	12,000.00
	■ Thermometer Advanced (Highly accurate thermometer (+/- 0.3% rdg. +1 C) accepts any type K or J thermocouple probes.				
90	Digital Thermostatic Water Bath	pc	1	14,900.00	14,900.00
	■ Digital Thermostatic Water Bath with 1 Chamber, 3L Capacity, RT to 100°C, 300W Heating Power, 0.1°C				
91	Digital Ultrasonic Bath	pc	1	14,500.00	14,500.00
	<ul style="list-style-type: none"> ■ 3L, Inner tank size: 240*140*100mm ■ Product size: 265*160*225mm, Heating ■ Temperature: 20~80, Packing size: 340*245*300mm 				
92	Digital Weighing Scale, 50kg	set	1	5,000.00	5,000.00
	<ul style="list-style-type: none"> ■ 1g accuracy ■ maximum of 50 kg ■ materials: metal 				
93	Dimethyl sulfoxide (DMSO), MBG	btl	1	6,450.00	6,450.00
	<ul style="list-style-type: none"> ■ Molecular Biology Grade (MBG) DMSO ■ Suitable for Molecular Applications ■ Nuclease-Free DMSO ■ DNase-Free, RNase-Free, Protease-Free, Phosphatase-Free ■ Bottle of at least 500mL 				
94	Dimethyl sulfoxide, Analytical reagent	L	2	2,500.00	5,000.00

95	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl	btl	3	3,000.00	9,000.00
96	Dissecting Kit	pack	2	1,100.00	2,200.00
	<ul style="list-style-type: none"> Dissecting kit (scalpel, scissors, large forceps, fine forceps, magnifying glass, and pins) 				
97	Dry Heat Sterilizer, 28L	pc	2	9,000.00	18,000.00
	<ul style="list-style-type: none"> Product size: 265*160*225mm, Heating temperature: 20~80, Packing size: 340*245*300mm 				
98	Erlenmeyer Flask, Glass, 1L	pc	1	3,000.00	3,000.00
99	Erlenmeyer Flask, Glass, 250mL	pc	26	400.00	10,400.00
	<ul style="list-style-type: none"> Material: Borosilicate Glass Good Quality 				
100	Erlenmeyer Flask, Glass, 500mL	pcs	24	1,000.00	24,000.00
	500ml capacity, borosilicate glass				
101	Ethanol	gallons	20	660.00	13,200.00
	95% solution, 1 gallon				
102	Ethanol	btls	11	2,000.00	22,000.00
	AR, at least 95%v/v, 4L				
103	Ethanol	btl	1	2,500.00	2,500.00
	Analytical Reagent Grade, Absolute, 2.5L per bottle				
104	Ethyl Acetate	btl	4	1,980.00	7,920.00
	Analytical Reagent Grade, 2.5L per bottle				
105	Ethyl Acetate	btl	1	3,100.00	3,100.00
	Analytical Reagent Grade, 2.5L per bottle				
106	Ferrous Sulphate	btl	1	2,500.00	2,500.00
	<ul style="list-style-type: none"> Analytical Grade 500 G bottle 				
107	Fetal/Foetal Bovine Serum (FBS)	btl	4	20,000.00	80,000.00
	<ul style="list-style-type: none"> Cell culture: mammalian cell culture suitable Certified Purity or Quality Grade Heat inactivated Endotoxin Level: ≤ 5 EU/mL Hemoglobin level: ≤ 15 mg/dL 100 mL per bottle Species: Cattle/Bovine 				
108	Filter Paper	box	5	600.00	3,000.00
	<ul style="list-style-type: none"> Filter Paper No.1 Qualitative Circles 125mm (12.5cm) Qty/box: 100 pieces per box Porosity: Medium Flow Rate: Medium 				
109	Filter Paper, 12.5 cm. Ashless 2.5um pore size	boxes	10	1,150.00	11,500.00
110	Firing Cotton	pc	2	590.00	1,180.00
	<ul style="list-style-type: none"> Part No: 3K-FC Quantity: 1 Packet of 200 threads (Per Kit), 1 Packet of 1000 threads (10 per bundle) (Sold Separately) Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel Application: Used to ignite the sample in the CAL3K Vessel. 				
111	Firing Wire	pc	2	525.00	1,050.00

	<ul style="list-style-type: none"> ■Part No: 3K-4-FW ■Quantity: 1 Packet of 5 wires (Per Kit & Sold Separately) ■Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel ■Application: Used to ignite the sample in the CAL3K Vessel. 				
112	Funnel, Glass, 50mm	pc	1	1,000.00	1,000.00
113	Glacial Acetic Acid	btl	3	3,500.00	10,500.00
	■Analytical Reagent grade 2.5L per bottle				
114	Glass Buret	pc	1	5,000.00	5,000.00
	■50 mL capacity, with glass stopcock				
115	Glass Slides	box	40	100.00	4,000.00
	<ul style="list-style-type: none"> ■Glass Slide ■72 pcs/box ■Clear Glass 25.4x76.2mm (1"x3"), 1.2mm Thick 				
116	Gloves, Nitrile, Medium	box	15	500.00	7,500.00
	<ul style="list-style-type: none"> ■Glove Type: Chemical Resistant Disposable Gloves ■Glove Material: Nitrile ■Powder-Free ■1 box of 100 or 50 pairs ■Food Safe ■Size: Medium 				
117	Gloves, Nitrile, Small	box	25	500.00	12,500.00
	<ul style="list-style-type: none"> ■box or 100-50 pairs, small ■natural rubber latex-free, powderless ■micro grip 				
118	Glycerol	btl	1	8,450.00	8,450.00
	<ul style="list-style-type: none"> ■Molecular biology grade, ≥99.0% assay quality ■Suitable for cell culture, insect cell culture, and electrophoresis ■Dnase-free, Rnase-free, NICKase-free, and protease-free ■Liquid form ■Bottle of 500mL 				
119	Glycerol-based liquid fluorescent mounting medium	pack	1	22,800.00	22,800.00
	<ul style="list-style-type: none"> ■Molecular Biology grade ■Suitable for mammalian cell culture ■For cellular fluorescent imaging ■Applied directly to fluorescently labeled cells or tissue samples on microscope slides ■Pack of at least 5 vials with 2mL per vials 				
120	Glycine	btl	3	7,400.00	22,200.00
	<ul style="list-style-type: none"> ■Molecular biology, ≥99.0% assay quality ■Suitable for protein analysis, SDS-PAGE and Western blot ■DNases and Rnases free ■Phosphatases and proteases free ■Crystalline form ■Bottle of at least 500g 				
121	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488-conjugated	Vial	1	18,690.00	18,690.00

	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐Reactive to Mouse ☐Alexa Fluor® 488 conjugate ☐Liquid form ☐Concentration is 2 mg/mL ☐Vial of at least 1mg 				
122	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 647-conjugated	Vial	1	23,900.00	23,900.00
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐Reactive to Mouse ☐Alexa Fluor® 647 conjugate ☐Liquid form ☐Concentration is 2 mg/mL ☐Vial of at least 1mg 				
123	Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP-conjugated	Vial	2	20,100.00	40,200.00
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Host/Isotype: Goat / IgG ☐Concentration: 1.5mg/mL ☐Vial of at least 2mL 				
124	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated	Vial	2	12,300.00	24,600.00
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Host/Isotype: Goat / IgG ☐Concentration: 1mg/mL ☐Vial of at least 0.2mL 				
125	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm	packs	3	700.00	2,100.00
126	Graduated Cylinder, Glass, 1000mL (2L)	pc	2	1,500.00	3,000.00
	☐Material: Borosilicate Glass☐Good Quality				
127	Graduated Cylinder, Glass, 100mL	pcs	2	400.00	800.00
	☐100mL capacityType 1, Class A Borosilicate Glass				
128	Graduated Cylinder, Glass, 250mL	pc	7	600.00	4,200.00
	☐Material: Borosilicate Glass☐Good Quality				
129	Graduated Pitcher	pc	1	1,000.00	1,000.00
130	Green 0.1 um Fluorescent Polystyrene microspheres	btl	1	10,000.00	10,000.00
	☐Green 0.1 um Fluorescent Polystyrene microspheres (1 ml)/				
131	HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) buffer solution	btl	1	7,930.00	7,930.00
	<ul style="list-style-type: none"> ☐For use with mammalian cell and tissue extracts ☐For molecular biology, analytical grade ☐Liquid form ☐1M concentration ☐Sterile filtered ☐Bottle of 100mL 				
132	Hexane 2.5L	btl	7	2,500.00	17,500.00
	☐Analytical Reagent Grade 2.5L per bottle				

133	High Precision Magnetic Pocket Transit Geological Compass Scale	pc	2	890.00	1,780.00
	<ul style="list-style-type: none"> 0-360 degrees good finish, clear printing. Small and exquisite, lightweight and easy to carry The magnetic pointer is strong and the scale is accurate Material: Plastic Color: preferably green Size: (L x W x H) 8.3*7*3.1cm / 3.27*2.76*1.22inch Needle-lock to protect the compass assembly during transit and gear driven adjustable declination to allow for simple compensated bearings. Features include a compass bubble level, clinometer level, sighting mirror with lubber line and sighting hole, induction dampened needle, and adjustable sighting points. 				
134	High Precision Stainless Steel Digital Vernier Caliper	pc	3	2,500.00	7,500.00
	6 inches; 0.01-0.025 mm accuracy				
135	Hydrophilic Membrane Filter	per 100 pcs.	1	20,000.00	20,000.00
	<ul style="list-style-type: none"> Pore size: 0.22 um (micron) material: PTFE size range: 13 - 25 mm diameter HPLC certified - for low levels of UV-absorbing extractables 				
136	In Situ Cell Death Detection Kit, Fluorescein	pack	1	77,500.00	77,500.00
	<ul style="list-style-type: none"> Suitable for mammalian cell culture Molecular biology grade For the detection and quantification of apoptosis at the single-cell level, based on labeling of DNA strand breaks; analysis by fluorescence microscopy or flow cytometry Sufficient for at least 50 tests Kit of at least 50 tests/assays 				
137	Induction Motor	pc	1	8,000.00	8,000.00
	Voltages - 220 to 240v, 60hz., 37kw, 0.5HP				
138	Inoculating Loop Stainless Steel	packs	2	1,200.00	2,400.00
	10pcs/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology				
139	Insulin, human recombinant	Vial	1	25,000.00	25,000.00
	<ul style="list-style-type: none"> cell culture mammalian: suitable sterile filtered of at least 0.2 µm ≥27.5 units/mg potency dry powder, 100mg 				
140	Lab Centrifuge, 4000rpm	pc	1	14,900.00	14,900.00
	80-2 Lab Centrifuge, 4000rpm				
141	Lab Gown Long Sleeves L	pcs	5	500.00	2,500.00
	Lab Coat High-quality White Size- Large; long sleeves				
142	Lab Gown Long Sleeves M	pcs	3	500.00	1,500.00
	<ul style="list-style-type: none"> Lab Coat High-quality White Long Sleeves Medium size 				
143	Laboratory film	roll	5	2,000.00	10,000.00
	4 in. x 125 feet/roll, flexible, self-sealing, odorless, moisture-resistant, thermoplastic semi-transparent and practically colorless				

144	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM	pc	1	14,500.00	14,500.00
	<ul style="list-style-type: none"> Lab hotplate magnetic stirrer, capable of heating and mixing liquid at the same time. The hot plate stirrer comes with 12*12cm aluminum plate, max. stirring capacity up to 1L, adjustable temperature 380 °C and variable speed 0-1600 rpm with two separate knob, convenient use, fast heating and high durability. 				
145	Laboratory Weighing Boats, 500pcs/pack	packs	4	1,000.00	4,000.00
	3.5 x 7.25 x 3.2"; 2.49lbs, 100ml				
146	Labware Detergent or Laboratory Dishwashing Liquid	btl	11	2,500.00	27,500.00
	<ul style="list-style-type: none"> Suitable for manual, ultrasonic, and machine washing Completely biodegradable Free of phosphate, chlorine, enzyme, and EDTA Contains anionic and cationic surfactants 5 liters per bottle 				
147	Latex Disposable Gloves Powder Free (Medium)	boxes	6	600.00	3,600.00
148	LB Broth	btl	5	1,150.00	5,750.00
149	Lemongrass Essential Oil	btl	1	2,000.00	2,000.00
	Lemongrass Oil (<i>Cymbopogon citratus</i> , 30 ml)				
150	Lemongrass essential Oil, 15mL	btl	1	2,000.00	2,000.00
	Lemongrass Oil (<i>Cymbopogon flexuosus</i> , 15 ml)				
151	Lens Tissues, 25 Sheets per Booklet, 5 Booklets	packs	5	800.00	4,000.00
152	Lithium Bromide	btl	1	1,250.00	1,250.00
	<ul style="list-style-type: none"> Anhydrous Lab grade/ Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 				
153	Lithium Chloride	btl	1	7,000.00	7,000.00
	<ul style="list-style-type: none"> Anhydrous Lab grade/Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 				
154	Lithium Iodide	btl	1	1,050.00	1,050.00
	<ul style="list-style-type: none"> Anhydrous Lab grade/Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 				
155	Low Autofluorescence Immersion Oil, n = 1.518, Type F, 30 mL	btls	2	6,000.00	12,000.00
156	Magnesium chloride, MgCl₂	btl	1	3,000.00	3,000.00
	<ul style="list-style-type: none"> 1kg per bottle colorless crystalline solid Properties: <ul style="list-style-type: none"> Quality Level: 300 Grade: anhydrous Assay: ≥98% Form: powder Impurities: ≤0.5% Insolubles bp: 1412 °C/1 atm (lit.) mp: 714 °C (lit.) Density: 2.32 g/mL at 25 °C (lit.) 				
157	Magnesium Nitrate	btl	1	1,947.00	1,947.00

	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
158	Malt Yeast Extract Agar	btl	1	1,578.00	1,578.00
	<ul style="list-style-type: none"> ☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation ☐pH: 4.7±0.2 at 25°C ☐solubility: without rests ☐Appearance: fine powder ☐100 grams 				
159	Manganese Sulphate	btl	1	2,000.00	2,000.00
	<ul style="list-style-type: none"> ☐Analytical Grade ☐500 G bottle 				
160	Methanol 2.5L	btl	3	1,200.00	3,600.00
	☐Analytical Reagent Grade 2.5L per bottle				
161	Methanol or Methyl alcohol	btl	4	1,950.00	7,800.00
	☐HPLC Grade 2.5L per bottle				
162	Micro pipette, with stand, P10 (0.5-10ul)	unit	1	8,060.00	8,060.00
163	Micro pipette, with stand, P100 (10-100ul)	unit	1	8,060.00	8,060.00
164	Micro pipette, with stand, P1000 (200-1000ul)	unit	1	8,060.00	8,060.00
165	Microcentrifuge Tube, 0.5mL, Attached Snap Cap, Clear/ Natural	unit	3	1,200.00	3,600.00
166	Microcentrifuge Tube, 1.5mL, Attached Snap Cap, Clear/ Natural	unit	6	700.00	4,200.00
167	Microcentrifuge Tubes (1.5mL Capacity)	pack	3	1,000.00	3,000.00
	<ul style="list-style-type: none"> ☐1.5mL Capacity ☐clear ☐safe-lock ☐pack of 1000 ☐autoclavable 				
168	Microcentrifuge Tubes (2.0mL Capacity)	pack	3	2,000.00	6,000.00
	<ul style="list-style-type: none"> ☐2.0mL Capacity ☐clear ☐safe-lock ☐pack of 1000 ☐autoclavable 				
169	Micropipette Tip, 10 uL	pack	5	600.00	3,000.00
	<ul style="list-style-type: none"> ☐10 uL-capacity ☐Standard tip, graduated ☐Autoclavable ☐Pack of 1000 tips 				
170	Microscope Eyepiece Reticle or Ocular Micrometer	pc	1	17,500.00	17,500.00
	☐Diameter, 24mm, 0.01 mm Division and Stage Micrometer set for calibration with 0.01 mm division				
171	Microscope Slides and cover slips	pieces	2	370.00	740.00
	☐Pre-Cleaned Blank slides with 100 22 x 22 mm square Cover Slip				
172	Microtube Storage Racks	pack of 10's	1	5,000.00	5,000.00

	<ul style="list-style-type: none"> 48 Place microtube and cryo-vial storage system Clear lid Fully autoclavable (122oC) and freezable (-190oC) Holds 1.5, 1.7, 2.0 ml microtubes Stackable can incorporate ice with frozen samples on bench 				
173	Mini Dry Bath	pc	1	14,500.00	14,500.00
	240V, 100°C, Digital, 4 x 6 x 4.5"				
174	Mortar and Pestle (small)	pc	1	300.00	300.00
175	MTT (3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide)	Vial	1	16,700.00	16,700.00
	<ul style="list-style-type: none"> Molecular biology grade For assessing cell viability as a function of redox potential Solid form Vial of at least 1g 				
176	N95 Particulate Filter Respirator and Surgical Mask	box	1	10,000.00	10,000.00
	<ul style="list-style-type: none"> NIOSH and FDA approved Filters 99% of particles down to 0.1 microns 50pcs/box Free-size 				
177	N-octanol	btl	1	1,616.00	1,616.00
	<ul style="list-style-type: none"> Technical grade Purity: 99% 5 liters 				
178	Nutrient Agar, 500g	btl	7	5,455.00	38,185.00
179	Oil Red O, Biological Stain	gms	1	7,500.00	7,500.00
	<ul style="list-style-type: none"> Cell culture: mammalian suitable analytical grade powder; 100 g per bottle staining and visualizing general localization of fats 				
180	Open Reel Measuring Tape	pc	2	2,000.00	4,000.00
	<ul style="list-style-type: none"> Fiberglass Stainless steel frame Specification: 30M/50M/100M (98ft/164ft/328ft) Material: Stainless steel ABS Unit: Metric/Imperial Dimension: 30M: approx. 25x17x2cm 50M: approx. 31x18x2.5cm 100M: approx. 31x18x2.5cm Rugged, Impact-resistant Plating ruler tape/nylon ruler tape, with good clarity and wear-resistant. Features Cone Tip Stake for Accurate Measurements and Stability. Comes with a convenient carry handle. Easy to read Metric and Imperial graduation 				
181	Ordinary Vernier Caliper	pcs	5	110.00	550.00
	<ul style="list-style-type: none"> Plastic material Up to 150mm measuring range accuracy atleast 1mm double scale measurement no battery Ultra precision and effortless operation. 				
182	Paraformaldehyde	btl	1	8,750.00	8,750.00

	<ul style="list-style-type: none"> ☐ Reagent or analytical grade ☐ For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies ☐ Crystalline form ☐ Bottle of 25g 				
183	Peptone	btl	2	5,000.00	10,000.00
	☐ 500g for bacteriological work				
184	Perilipin 1 Polyclonal Antibody, unconjugated	Vial	1	38,640.00	38,640.00
	<ul style="list-style-type: none"> ☐ Molecular Biology grade ☐ Suitable for mammalian cell culture ☐ For Western Blot, IF, ICC, IHC ☐ Host/Isotype: Rabbit / IgG ☐ Reactive to mouse, rat ☐ Concentration: 1 mg/mL ☐ Vial of at least 100uL 				
185	Petri dish	pc	50	200.00	10,000.00
	<ul style="list-style-type: none"> ☐ comprise a lid and base ☐ high clarity glass ☐ borosilicate glass ☐ size: <ul style="list-style-type: none"> ◀ Cover int. dia mm : 95 ◀ Base ext. dia mm: 94 ◀ Size: 100 x 20 				
186	Petroleum Ether, AR	gallon	1	7,000.00	7,000.00
187	pH Meter pen type	pcs	2	2,500.00	5,000.00
	☐ 0.1 pH resolution ☐ water-resistant/proof				
188	Phenolphthalein Indicator Powder	btl	1	1,000.00	1,000.00
	☐ AR grade, 125 grams				
189	PI-3 Kinase p110α antibody, unconjugated	Vial	1	41,400.00	41,400.00
	<ul style="list-style-type: none"> ☐ Molecular Biology grade ☐ Suitable for mammalian cell culture ☐ For Western Blot, IF, ICC, IHC ☐ Reactive to Human, Mouse, Rat ☐ Host/Isotype: Rabbit / IgG ☐ Vial of at least 100uL 				
190	Picric Acid, 1Li./Bottle	btls	1	7,000.00	7,000.00
	<ul style="list-style-type: none"> ☐ Saturated, Aqueous solution ☐ Physical form: Liquid ☐ Color: Yellow ☐ Concentration or Composition Notes: <ul style="list-style-type: none"> ☐ Approximately 1.2% (w/v) ☐ Molecular Weight (g/mol): 229.104 				
191	Pikovskaya Agar, Powder, 500g/btl	btl	1	30,500.00	30,500.00
	☐ suitable for microbiological studies				
192	Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound)	pc	1	6,800.00	6,800.00
	☐ NT-STD Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound)				
193	Pipette Tips (20 ul)	packs	5	500.00	2,500.00
	<ul style="list-style-type: none"> ☐ 20 ul capacity ☐ autoclavable ☐ 100 pcs per pack 				
194	Plastic cup with cover	pack	1	165.00	165.00

	<ul style="list-style-type: none"> ☐30 ml capacity ☐same size as fast food gravy container ☐round shape ☐transparent ☐at least 60pcs cup in one pack 				
195	Portable pH Meter with Temperature probe	pc	1	14,000.00	14,000.00
196	Potassium Acetate	btl	1	2,000.00	2,000.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
197	Potassium Bromide	btl	1	6,000.00	6,000.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
198	Potassium Carbonate	btl	1	2,000.00	2,000.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
199	Potassium Chloride	kgs	1	1,500.00	1,500.00
	<ul style="list-style-type: none"> ☐Chemical must be plant tissue culture tested for at least 20 years ☐ISO complaint ☐ACS REAG ☐PH EUR ☐meets USP Standards ☐Bioreagent suitable for cell culture 				
200	Potassium chloride (KCl) solution	btl	1	5,090.00	5,090.00
	<ul style="list-style-type: none"> ☐Molecular biology grade, Rnase-free ☐For use with mammalian cell and tissue extracts ☐Liquid form ☐2M concentration ☐Bottle of 100mL 				
201	Potassium Chloride, AR, 1000g	btl	3	2,500.00	7,500.00
202	Potassium Chromate	btl	1	1,050.00	1,050.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
203	Potassium dihydrogen phosphate, AR, 500g	btl	1	2,500.00	2,500.00
204	Potassium Fluoride	btl	1	1,832.00	1,832.00
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 				
205	Potassium Hydroxide	btl	2	4,200.00	8,400.00
	<ul style="list-style-type: none"> ☐CAS 1310-58-3 ☐Flakes ☐Analytical Grade ☐1kg 				
206	Potassium iodide, KI	btl	1	6,000.00	6,000.00

	☐Analytical reagent grade, powder, 500g/bottle				
207	Potassium Nitrate	kl	1	5,800.00	5,800.00
	☐AR grade ☐Formula: KNO ₃ ☐Molar wt: 101.1032 g/mo ☐1kg/pack				
208	Potassium sulfate, K₂SO₄	btls	4	1,900.00	7,600.00
	☐Analytical Reagent Grade 2.5L per bottle				
209	Potato Dextrose Agar (PDA), 500 grams	btl	4	4,500.00	18,000.00
210	Potato Starch	btl	3	4,000.00	12,000.00
	☐Analytical Grade ☐500 G bottle				
211	Potentiometer	set	1	400.00	400.00
	☐Quantity: 25pcs ☐Model: 3296W 202 2K Ohm ☐Turns: 25 turns ☐Power: 0.5W, 1/2W ☐Resistive Material: Cermet ☐Resistance Tolerance: ±10% ☐Mounting Type: Through Hole ☐Resistance Change Type: Linear ☐Adjustment Type: Top Adjustment ☐Storage temperature: -55°C ~ +125°C ☐Temperature Coefficient: ±100ppm/°C ☐Square Body Size: 9.5x4.8x10mm/0.37"x0.19"x0.39"(L*W*H)				
212	PPARγ polyclonal antibody, unconjugated	Vial	1	35,800.00	35,800.00
	☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Vial of 100uL				
213	Propidium iodide - Fluorescent Stains	Vial	1	18,750.00	18,750.00
	☐Suitable for mammalian cell culture ☐For molecular biology, analytical grade ☐Vial of 100mg per vial				
214	Protease Inhibitor, Complete	btl	1	59,500.00	59,500.00
	☐For use with mammalian cell and tissue extracts ☐For molecular biology, analytical grade ☐Inhibits serine, cysteine, and acid proteases, and aminopeptidases ☐Contains AEBSF, Aprotinin, Bestatin, E-64, EDTA, Leupeptin ☐Bottle for 10mL cocktail				
215	Protein A Agarose	btl	1	59,000.00	59,000.00
	☐Molecular biology grade ☐Suitable for purifying IgG molecules ☐Affinity column type ☐Supplied as a suspension ☐Bottle of at least 5mL				
216	Protein Standard/Ladder, Pre-stained	pack	1	21,600.00	21,600.00

	<ul style="list-style-type: none"> ☐Molecular biology ☐Suitable for protein analysis, SDS-PAGE and Western blot ☐At least 12 marker ladder, ready-to-use ☐3.5 to 260 kDa size range ☐Pack of at least 2 vials x 250uL per vial 				
217	PVDF membrane for Western blotting, 8.6 x 13.5 cm	pack	2	41,000.00	82,000.00
	<ul style="list-style-type: none"> ☐PVDF-Filter paper sandwich ☐Detection methods: Chemiluminescence, Colorimetric ☐Pore Size: 0.45µm ☐Target protein >20 kDa ☐Dimension: at least 8.6 x 13.5 cm ☐Pack of at least 16 membranes"" ☐Pre-assembled blotting membrane & filter paper 				
218	PVDF Syringe Filters, Size: 0.2 um/ at least 17mm	pack	1	10,000.00	10,000.00
	<ul style="list-style-type: none"> ☐For general biological filtration and of samples where high protein recovery is desired ☐Size: 0.2 um/ at least 17mm ☐Sterile or autoclavable ☐Pack of 1000 				
219	PVDF Syringe Filters, Size: 0.45 um/ at least 17mm	pack	1	10,000.00	10,000.00
	<ul style="list-style-type: none"> ☐For general biological filtration and of samples where high protein recovery is desired ☐Size: 0.45 um/ at least 17mm ☐Sterile or autoclavable ☐Pack of 1000 				
220	Reagent Bottle 250mL	pcs	5	400.00	2,000.00
	☐amber colored bottle with HDPE blue screw cap, 250mL				
221	Reagent Bottle 500mL	pcs	10	500.00	5,000.00
	☐Amber colored bottle with HDPE orange screw cap, 500mL				
222	Reagent Bottle	pc	10	300.00	3,000.00
	<ul style="list-style-type: none"> ☐With Stopper/Screw Cap ☐Material: Glass/Borosilicate Glass ☐Color: Clear/Transparent Flask ☐Capacity: 2000mL ☐Graduation: 1800mL 				
223	Reagent Grade NaOH Pellets, 500g	packs	1	3,000.00	3,000.00
	☐AR grade, pellets, 500 grams				
224	Resealable Plastic Bag, Large	packs	2	500.00	1,000.00
	☐resealable pastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack				
225	Resealable Plastic Bag, Medium	packs	3	150.00	450.00
	☐resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack				
226	Resealable Plastic Bag, Small	packs	3	100.00	300.00
	☐resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack				
227	RNA isolation Reagent	btl	1	45,000.00	45,000.00
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Suitable for biological isolation from the cultured cell, animal and plant tissue, yeast, virus, and bacteria ☐Convenient isolation of RNA, DNA, and protein from the same sample source ☐Bottle of at least 200mL 				

228	Scalpel Blade	box	1	280.00	280.00
	☐Stainless steel☐100 blades/box				
229	Scalpel Handle	pcs	2	70.00	140.00
	☐#4, Stainless steel				
230	Sieve no.10 with cover and pan	set	1	10,000.00	10,000.00
	☐Sieve No. 10 (8" Sieve, All Brass, Full Height, No. 10 Mesh); Eye opening: 2000 μ m (0.0787in) ☐Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height) ☐Sieve Cover (8" Brass Sieve Cover Lid)				
231	Sieve no.50 with cover and pan	sets	2	11,000.00	22,000.00
	☐Sieve No. 50 (8" Sieve, All Brass, Full Height, No. 50 Mesh); Eye opening: 300 μ m (0.0118in) ☐Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height) ☐Sieve Cover (8" Brass Sieve Cover Lid)				
232	Silver	btl	1	15,000.00	15,000.00
	☐5 G/bottle ☐form: nanopowder (particle size: >100 nm) ☐99.5 trace metal basis				
233	Silver Nitrate, AgNO₃	btl	3	15,000.00	45,000.00
	☐Analytical reagent grade, 100g/bottle				
234	Skim Milk	btl	1	5,000.00	5,000.00
	☐Powder form ☐500 G ☐Suitable for microbiology				
235	Sodium Bromide, NaBr	btl	1	2,000.00	2,000.00
	☐at least 250g/bottle, AR Chemical property- Sodium bromide is a colorless cubic crystal or white granular powder. It is odorless, and has slightly bitter and briny taste but high toxicity. It is easily soluble in water (at 100 °C, the solubility in 100ml water solubility is 121g), but slightly soluble in alcohol. ☐Specifications: ◀Appearance: White, Crystalline Solid ◀Assay: ≥99% ◀Chloride: ≤1.0% ◀Loss on Drying: ≤0.5% ◀Sulfate: ≤0.05% ◀pH value: 6.5~8.5 (5% @ 72 °F)				
236	Sodium Chloride	btl	11	800.00	8,800.00
	☐Analytical reagent grade, 500g/bottle				
237	Sodium dodecyl sulfate (SDS)	btl	1	27,000.00	27,000.00
	☐Molecular biology grade, at least ≥99.0% assay quality ☐Suitable for protein analysis and electrophoresis ☐Dnase-free and Rnase-free ☐Phosphatase-free and proteases-free ☐Bottle of at least 500g				
238	Sodium Hydroxide, AR 500G	btls	3	1,200.00	3,600.00
	☐500 g/bottle, AR, Pellets				
239	Sodium Hydroxide, Technical Grade, 1KG, Pellets	btls	2	500.00	1,000.00
	☐Technical grade, pellets, 1 kg				
240	Sodium Iodide	btl	1	1,702.00	1,702.00

	<input type="checkbox"/> Anhydrous <input type="checkbox"/> Lab grade/ Analytical reagent grade <input type="checkbox"/> Expiration date(3 years from the delivery date) <input type="checkbox"/> Packed in Teflon bottles				
241	Sodium Nitrate	btl	1	527.00	527.00
	<input type="checkbox"/> Anhydrous <input type="checkbox"/> Lab grade/ Analytical reagent grade <input type="checkbox"/> Expiration date(3 years from the delivery date) <input type="checkbox"/> Packed in Teflon bottles				
242	Stage Micrometer (1 mm ruled with 0.01 mm division, glass slide)	pc	1	4,500.00	4,500.00
	<input type="checkbox"/> Stage Micrometer, 1mm ruled w/ 0.01mm Div (Glass slide)				
243	Stainless Steel Crucible Tongs	pc	1	1,000.00	1,000.00
	<input type="checkbox"/> 25 cm <input type="checkbox"/> Stainless Steel				
244	Stainless Steel Laboratory Microspatula	pieces	12	350.00	4,200.00
245	Stainless Steel Mesh Sieve, #5	pc	1	5,000.00	5,000.00
	<input type="checkbox"/> #5, 5 mm, 5.04 x 4.84 x 2.17 inches; 4.59 Ounces with cover				
246	Standard Berlese Funnel (Tullgren Funnel)	piece	1	9,500.00	9,500.00
	<input type="checkbox"/> Contents: * Funnel * Mesh tray * Mesh lid * 50ml collecting tube * Aluminum housing <input type="checkbox"/> Specifications: * Housing: Length 365mm x Width 365mm x Height 520mm * Funnel: Diameter 340mm x Height 350mm * Mesh tray: Diameter 300mm * Mesh lid: Diameter 335mm * Weight (including frame): 1.55kg				
247	Standard Buffer solution	btl	1	1,500.00	1,500.00
	<input type="checkbox"/> pH 4, 1000 ml; calibration certificate included				
248	Standard Method Agar (PCA)	btl	6	5,000.00	30,000.00
	<input type="checkbox"/> Plate count Agar, 500g				
249	Standard Size Marble Base Titration Stand	pc	1	2,500.00	2,500.00
	<input type="checkbox"/> Marble base with iron/aluminum stand for buret				
250	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk	packs	9	2,000.00	18,000.00
251	Stirring Rod	pc	12	50.00	600.00
	<input type="checkbox"/> Standard Size <input type="checkbox"/> Good Quality <input type="checkbox"/> with rubber policeman				
252	Strontium Chloride, 500g	btl	1	4,000.00	4,000.00
	<input type="checkbox"/> Anhydrous <input type="checkbox"/> Lab grade/ Analytical reagent grade <input type="checkbox"/> Expiration date(3 years from the delivery date) <input type="checkbox"/> Packed in Teflon bottle				
253	Strontium Nitrate	btl	1	1,050.00	1,050.00

	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottle 				
254	Sucrose	btl	2	1,500.00	3,000.00
	☐Analytical Reagent Grade 500g/bottle				
255	Sulfuric acid, H₂SO₄	btls	1	2,600.00	2,600.00
	☐Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle				
256	Temperature-Humidity Data Logger	piece	1	2,000.00	2,000.00
	<ul style="list-style-type: none"> ☐Portable and hand-held ☐16000 data recording capacity. ☐Adjustable record interval: 10s~24hour ☐Multi-function LCD ☐Internal NTC temperature thermal sensor with optional external sensor ☐Data export in PDF/EXCEL via data management software ☐Selectable °F/°C temperature unit ☐Size: approx. 84 (L) x 44(W) x 20 (H) mm ☐Good quality ☐Durable 				
257	Test Tube (Medium), Glass, 15 x 125mm	pc	50	250.00	12,500.00
258	Test Tube (Small), Glass, 12 x 75mm	pc	50	200.00	10,000.00
	☐12x75 mm glass (borosilicate)				
259	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pcs	3	800.00	2,400.00
	☐Stainless steel				
260	Test Tube Rack, 13mm, 90 placer	pc	3	1,500.00	4,500.00
	☐Propylene, 13mm diameter hole, 90 placer				
261	Test Tube Rack, 20 mm x 24 tubes	pc	3	800.00	2,400.00
	☐Stainless Steel, 20 mm diameter holes, capacity 24 test tubes				
262	Test Tube Racks, 12MM x 12Holes	pcs	4	600.00	2,400.00
	☐Stainless Steel Holes Test Tube Rack				
263	Test Tube, Borosilicate Glass, Rimless, 20 x 150 mm	pcs	50	100.00	5,000.00
264	Test Tube, Glass, Graduated, 50mL	pieces	55	200.00	11,000.00
	☐with Screw Cap				
265	Test tube/ Bottle Cleaning Brush	pcs	5	100.00	500.00
266	Toluene	btl	1	7,300.00	7,300.00
	(CAS 108-88-3) ☐2.5 liters, ☐Analytical Grade ☐99.5%,				
267	Triglyceride Assay Kit (luminescence detection method)	pack	2	51,000.00	102,000.00
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Works with lysed cells, tissues, medium and serum samples ☐No organic extraction, extreme heat, or centrifugation required ☐Linear triglyceride detection up to 80µM ☐For bioluminescent assay ☐Pack of at least 10mL total volume assay kit 				
268	Triton X-100	btl	1	9,120.00	9,120.00

	<ul style="list-style-type: none"> ☐Molecular biology grade ☐For biochemical applications to solubilize proteins ☐Liquid form ☐Bottle of 10mL per bottle 				
269	Trizma base	btl	3	15,550.00	46,650.00
	<ul style="list-style-type: none"> ☐Molecular biology grade, at least ≥99.8% assay quality ☐Suitable for cell culture ☐Dnase-free and Rnase-free ☐Phosphatase-free and proteases-free ☐Crystalline form ☐Bottle of at least 1Kg 				
270	Vernier Caliper	pc	2	3,600.00	7,200.00
	<ul style="list-style-type: none"> ☐Measurement Range:0-200mm ☐Material:Stainless Steel ☐Accuracy:0.01mm ☐Caliper Type:Digital Calipers 				
271	Volumetric Flask 100ml	pc	5	800.00	4,000.00
	<ul style="list-style-type: none"> ☐100 mL (±0.01 mL) ☐Borosilicate glass with glass standard taper stopper, ☐Class A ☐Calibrated 				
272	Volumetric Flask 25mL	pcs	12	550.00	6,600.00
	☐clear borosilicate glass with ground glass stopper, 25mL, Class A				
273	Volumetric Flask 50ml	pc	5	500.00	2,500.00
	<ul style="list-style-type: none"> ☐50mL, (±1mL) ☐Borosilicate glass with glass standard taper stopper, ☐Class A ☐Calibrated 				
274	Vortex Mixer, 220V, 2800RPM	pc	1	14,000.00	14,000.00
	☐2,800 turn, bowl type; Working mode: point vibration, continuous, 30w, 150 x 105 x 115mm				
275	Wash Bottle, 250mL cap.	pc	7	200.00	1,400.00
	☐Material: Plastic (good quality)				
276	Watch Glass	pack	1	1,500.00	1,500.00
	<ul style="list-style-type: none"> ☐Material: Glass/Borosilicate Glass ☐Autoclavable: Yes ☐Outer diameter: 75 mm (7.5cm), ☐fits 250 mL beakers, ☐12pcs/pack, ☐good quality 				
277	Weighing Scale, Hanging, Analog	pc	2	3,000.00	6,000.00
	<ul style="list-style-type: none"> ☐Readability: 0.1g to 0.0000001g ☐Accuracy: ±1% ☐Weight capacity: 0g up to 3000g 				
278	Woven Filters, Nylon Mesh, 10pcs/pack	packs	2	22,200.00	44,400.00
	<ul style="list-style-type: none"> ☐Mesh Opening: 5 um ☐Water affinity: hydrophilic ☐High Strength and Adsorption ☐30 X 30 cm sheet ☐Thickness: 100 um 				
279	Yeast Extract, Powder, 250g/btl	btl	1	9,660.00	9,660.00

	<input type="checkbox"/> Microbiology and molecular biology grade <input type="checkbox"/> Nonselective for coliforms				
280	Zinc Bromide	btl	1	3,467.00	3,467.00
	<input type="checkbox"/> Anhydrous <input type="checkbox"/> Lab grade/Analytical reagent grade <input type="checkbox"/> Expiration date(3 years from the delivery date) <input type="checkbox"/> Packed in Teflon bottles				
281	β-actin polyclonal antibody, unconjugated	Vial	1	24,500.00	24,500.00
	<input type="checkbox"/> Molecular Biology grade <input type="checkbox"/> Suitable for mammalian cell culture <input type="checkbox"/> For Western Blot, IF, ICC, IHC <input type="checkbox"/> Reactive to Human, Mouse, Rat <input type="checkbox"/> Concentration: 1 mg/mL <input type="checkbox"/> Host/Isotype: Rabbit / IgG <input type="checkbox"/> Vial of at least 100ug"				
282	β-catenin polyclonal antibody, unconjugated	Vial	1	40,000.00	40,000.00
	<input type="checkbox"/> Molecular Biology grade <input type="checkbox"/> Suitable for mammalian cell culture <input type="checkbox"/> For Western Blot, IF, ICC, IHC <input type="checkbox"/> Reactive to Human, Mouse, Rat <input type="checkbox"/> Host/Isotype: Rabbit / IgG <input type="checkbox"/> Vial of at least 500uL				
	Rebidding (GOODS-21-25)				
283	Temperature Data Logger	pcs	5	900.00	4,500.00
	<input type="checkbox"/> High accuracy temperature logger				
	<input type="checkbox"/> Logger can be connected to the PC				
	<input type="checkbox"/> via USB for data import and export to excel or pdf.				
	<input type="checkbox"/> Temperature & Humidity Monitoring				
	<input type="checkbox"/> Measures material moisture				
284	Contact cleaner	pcs	10	350.00	3,500.00
	<input type="checkbox"/> Anti-rust				
	<input type="checkbox"/> Wet-type Lubricant				
	<input type="checkbox"/> Spray-type				
	<input type="checkbox"/> Penetrating-type				
	<input type="checkbox"/> 360ml/can				
285	Polyethylene Glycol (PEG) 6000,	btl	1	700.00	700.00
	<input type="checkbox"/> 250g per bottle				
286	Burette Brush	piece	2	150.00	300.00
	<input type="checkbox"/> big size for 50 mL burette				
287	Filter Paper, 12.5 cm. Ashless #42, 100pcs. per box	boxes	4	1,800.00	7,200.00
288	1 kb Plus DNA Ladder	btl	1	7,700.00	7,700.00
	<input type="checkbox"/> 1ml per bottle				
289	Agarose LE	btl	1	5,680.00	5,680.00
	<input type="checkbox"/> 100g per bottle				
290	Custom oligo primers	unit	10	1,100.00	11,000.00
	<input type="checkbox"/> HPLC-CE purified				
291	Delicate Task Wipes	boxes	12	400.00	4,800.00
	<input type="checkbox"/> 4.4 x 8.4 inches (11 x 21 cm)				
	<input type="checkbox"/> 280 sheets/box				
	<input type="checkbox"/> lint-free				
292	PCR loading dye	unit	1	9,600.00	9,600.00
	<input type="checkbox"/> 10x, 1 ampule				

293	LB Broth	btl	1	1,150.00	1,150.00
	☐100g/bottle				
294	Gloves, Nitrile, Large	box	10	500.00	5,000.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: large				
295	Gloves, Nitrile, Medium	box	8	500.00	4,000.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: Medium				
296	Brush Suitable for 10mL Graduated Cylinder	pc	3	200.00	600.00
	☐Bristle Material: Black Nylon				
	☐Suitable for 10mL Graduated Cylinder				
297	Brush Suitable for 50mL Graduated Cylinders	pc	3	200.00	600.00
	☐Bristle Material: Black Nylon				
	☐Suitable for 50mL Graduated Cylinder				
298	Brush Suitable for 100mL Graduated Cylinders	pc	3	200.00	600.00
	☐Bristle Material: Black Nylon				
	☐Suitable for 100mL Graduated Cylinder				
299	Water Quality Test Meter	piece	3	2,000.00	6,000.00
	☐2 in 1 kit, with calibration packets and user's manual				
	◀1 TDS meter				
	◀1 pH meter				
	☐Hand-held and portable, pen-sized				
	☐Color: yellow (pH) + blue (TDS)				
	☐Material: plastic + metal				
	☐Size: length at 15-20cm				
	☐Accurate reading				
	☐Good quality				
	☐Durable				
300	Temperature-Humidity Data Logger	piece	4	2,000.00	8,000.00
	☐Portable and hand-held				
	☐16000 data recording capacity.				
	☐Adjustable record interval: 10s~24hour				
	☐Multi-function LCD				
	☐Internal NTC temperature thermal sensor with optional external sensor				
	☐Data export in PDF/EXCEL via data management software				
	☐Selectable °F/°C temperature unit				
	☐Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	☐Good quality				
	☐Durable				
301	Dissolved Oxygen Meter	piece	1	11,000.00	11,000.00
	☐Pen-type, portable, easy to carry and durable				
	☐LCD display for simultaneous display of dissolved oxygen and temperature.				

	☑Highly sensitive probe for fast response and accurate measurement				
	☑Unit switching function, Celsius and Fahrenheit				
	☑Removable probe design, easy to change measurement, equipped with three spare probe covers for intimate protection.				
	☑The pen body design is compact, lightweight, easy to carry and easy to measure.				
	☑Measurement Range: 0.00-20.00mg/L				
	☑Basic Measurement Error: 0.4 mg/L				
	☑Dissolved Oxygen Temperature Compensation: 0-40 degrees Celsius				
	☑Power Supply: 4 LR44 1.5V button batteries				
	☑Color: Blue And Gray				
	☑Dissolved Oxygen Meter: at least 140x40x40mm				
	☑Pen: at least 160x13x13mm				
	☑Lead Length: at least 2930mm				
	☑Probe Length: at least 3090mm				
	☑Full Length: at least 3230mm				
	☑Weight: approximately 253g				
	☑Package Included:				
	◀1 x Host				
	◀3 x Probe Covers				
	◀1 x USB Data Cable				
	◀1 x Portable Cloth Bag				
	◀1 x Color Box				
	◀1 x Factory Certificate				
	◀1 x Instruction Manual				
	◀1 x Dissolved Oxygen Filling Solution				
	◀10 x Reagent A				
	◀10 x Reagent B				
302	Laboratory Burette Stand	pc	3	1,000.00	3,000.00
	☑Standard laboratory burette stand				
	☑Good quality White PE Burette Stand				
	☑Heavy duty white polyethylene burette stand comes with a polyethylene coated metal rod which screws into the base.				
	☑Whichever is available, with the hole in the center (center weighted) or at the short edge (edge weighted) as long as the 3 burette stands are the same (ex. if center weighted, then all 3 should be center weighted).				
303	Analytical Balance	pc	1	29,240.00	29,240.00
	☑max capacity 120 g				
	☑readability 0.1mg				
	☑linearity +/- 0.2 mg				
	☑pan size 80 mm dia				
	☑Motor-driven built-in calibration weight				
	☑PSC: touch-key with built-in or external weight calibration mode				
304	Reagent Bottle	pc	3	300.00	900.00
	☑With Stopper/Screw Cap				
	☑Material: Glass/Borosilicate Glass				
	☑Color: Clear/Transparent Flask				
	☑Capacity: 2000mL				
	☑Graduation: 1800mL				

305	Brush for cleaning 250mL Erlenmeyer Flask	pc	3	250.00	750.00
	☐Bristle Color: White Bristle				
	☐Brush+Handle Length: 12"				
	☐Brush Diameter: 1 3/8"				
	☐Brush Length: 3 1/2"				
	☐Suitable for cleaning 250mL Erlenmeyer Flask				
306	Brush Suitable for cleaning 500mL Erlenmeyer Flask	pc	3	250.00	750.00
	☐Bristle Color: White Bristle				
	☐Brush+Handle Length: 14"				
	☐Brush Diameter: 1 1/2"				
	☐Brush Length: 4"				
	☐Suitable for cleaning 500mL Erlenmeyer Flask				
307	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage	unit	25	2,000.00	50,000.00
	☐Large LCD display of 41mm character height				
	☐Measure DC/AC voltage/current, diode, resistance, capacitance, temperature and continuity test.				
	☐Max. display value: 6000.				
	☐Can test the temperature with unit of °C/ °F.				
	☐Includes relative value testing, duty cycle test, data hold, MAX/MIN value hold and auto power off function.				
	☐With overload protection on all ranges.				
	☐Low battery indication and warning alarm function.				
	☐Equipped with a back bracket for supporting multimeter, and also can collect test probe.				
	☐Protected by rubber for drop protection.				
	☐Great for troubleshooting automotive and household electrical problems.				
308	Activated Acid-washed Charcoal	pack	1	15,000.00	15,000.00
	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
	☐2.5kg per pack				
309	Ethanol	btl	10	300.00	3,000.00
	☐USP 95% (food grade), 2.5 L				
310	Naphthaleneacetic Acid, 5g per bottle	btl	5	3,400.00	17,000.00
	☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				
	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP Standards				
	☐Bioreagent suitable for cell culture				
311	Phytigel, Sigma	kl	7	40,000.00	280,000.00
	Branding the chemical to be purchase is following the protocol set for the project's protocol and standards				

	☐Chemical must be plant tissue culture tested for at least 20 years				
	☐ISO complaint				
	☐ACS REAG				
	☐PH EUR				
	☐meets USP standards				
	☐Bio reagents suitable for cell culture				
312	Dispensing pump for culture media	unit	1	60,000.00	60,000.00
	☐Single Pump				
	☐Continuous				
	☐Multi-dose				
	☐(predetermined volume, with a pause between each dose)				
	☐Digital control screen				
	☐Rotating button for easy navigation and program settings				
	☐Compact: only 16 cm wide				
	☐Up to 1% precision				
	☐Dispenses liquid from 50 μ L to 99 μ L				
	☐Step-by-step instructions on screen				
	☐Calibration possible with chosen volume				
	☐High quality Watson Marlow TM pump heads				
	☐Heavy duty polycarbonate top shell and durable stainless steel				
313	Distilling Apparatus	unit	1	150,000.00	150,000.00
	☐Note: Distilling apparatus in cart is beyond the budget allocated.				
	☐Housing made of stainless steel				
	☐Pilot switch light				
	☐with thermostat				
	☐Distillation capacity L/H; 4				
	☐Water consumption L/Min : 1				
	☐Equipment measures HxWX Depth (mm): 435x370x220				
	☐Heaters: 3000W				
	☐Electricity : 230V-50/60 Hz 13A				
	☐Equipment wt: 8				
314	Potassium dihydrogen phosphate, AR	500gms	2	500.00	1,000.00
315	Triethanolamine, AR	liters	3	3,000.00	9,000.00
316	Alcohol, Denatured	gallons	7	253.00	1,771.00
317	Hydrochloric Acid	btl	1	600.00	600.00
	☐AR grade				
	☐2.5 liter/btl.				
	☐36.5-38%				
	☐impurities <1ppm free chlorine				
318	Glass Jar 12oz	box	15	384.00	5,760.00
	☐Clear				
	☐12oz				
	☐M-7101				
	☐with cap				
	☐24pcs/box				
319	Glass Jar 8oz	box	15	312.00	4,680.00
	☐Clear				
	☐8oz				
	☐M-7177				

	☐with cap				
	☐24pcs/box				
320	Myo-inositol	btls	3	1,600.00	4,800.00
	☐AR, 100g per bottle				
321	Agar (E-406)	btl	1	2,400.00	2,400.00
322	☐ Pronadisa-delete				
	☐500g				
	☐For plant tissue culture				
323	Scalpel Blade	box	8	280.00	2,240.00
	☐Stainless steel				
	☐100 blades/box				
324	Volumetric Flask	pc	3	360.00	1,080.00
	☐50mL, (±1mL)				
	☐Borosilicate glass with glass standard taper stopper				
	☐Class A				
	☐Calibrated				
325	Volumetric Flask 100ml	pc	3	500.00	1,500.00
	☐100 mL (±0.01 mL)				
	☐Borosilicate glass with glass standard taper stopper				
	☐Class A				
	☐Calibrated				
326	96-Well Plates, Polypropylene	pack	1	18,500.00	18,500.00
	☐96 Well Microplate				
	☐well working volume 50-300 µL				
	☐clear polypropylene wells round bottom				
	☐maximum volume 355 µL				
	☐DNase/RNase free				
	☐Non-pyrogenic by LAL method to <0.06 EU/mL				
	☐at least 100 EA per pack				
327	Alcohol, Ethyl, 95% (Tech)	liters	2	115.00	230.00
328	Tri-power Stereo Microscope	unit	4	25,000.00	100,000.00
	☐45° advance viewing head which can rotate 360°				
	☐locked on 15x wide-field eye piece with diopter adjustment on one ocular tube				
	☐magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic				
	☐led lighting				
	☐rack and pinion focusing with slip clutch and tension adjustment				
	☐adjustable pole mounted cycle				
	☐includes a 95mm black and white reversible stage plate				
	☐rugged all metal construction				
	☐corded				
	☐power source: 220-240 V 50/60Hz				
	☐with warranty				
329	Table Type Vacuum Packaging Machine	unit	1	33,900.00	33,900.00
	☐voltage: 220V/50-60Hz				
	☐power: 0.75W				
	☐heat-sealing power: .6 Kw				
	☐lowest absolute pressure of vacuum case: 1.33 kpa				
	☐volume of vacuum case: 380 x 380 x 80 mm				
	☐heat sealing strip length and width: 260 x 8 mm				

	☐number of heat sealing strips: 1 or 2 pcs				
	☐exhaustment of vacuum pump: 10m3/h				
	☐material of vacuum case and null: stainless steel				
	☐dimension: 470 x 330 x 300 mm (l x w x h)				
	☐weight: 45 kgs				
330	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity	unit	2	70,000.00	140,000.00
	☐Temperature range: +2°C to +8°C				
	☐Inner cabinet: white epoxy painted				
	☐Inner shelves: epoxy plastic coated steel rod				
	☐CFC Free Eco-friendly refrigerant R 134a				
	☐CFC Free, environment friendly Cyclopentene foaming PUF insulation				
	☐No frost, fan-assisted cooling circulation system				
	☐Ultra-fast pull down, auto defrost with self-evaporating drip tray				
	☐Rear-to-front hot air anti-condensation				
	☐Digital temperature controller				
	☐Double glazed glass doors				
	☐Full length illumination				
	☐Fitted with castors, front two with brakes				
	☐Low noise, green technology and energy saving				
	☐Self-closing hinge doors				
	☐Lock as standard				
	☐Input 220/240V, 50 Hz with power cord & plug				
	☐Automatic voltage stabilizer with time delay restart				
	☐gross volume: ≥ 300 L				
331	ELISA READER	unit	1	580,000.00	580,000.00
	☐(Filter wheel-type) (Bio-rad iMark)				
	☐Wavelength range: nm400-750 or wider				
	☐Compatible plate/strips: flat, U, or V-bottom microplates or 8- or 12- well strip plates.				
	☐Number of filters accommodated: at least 8				
	☐includes 415, 450, 490, 595, 655 and 750 nm filters.				
332	MICRO CENTRIFUGE , (Ventilated)	unit	1	45,000.00	45,000.00
	☐Capacity : 24 x1.5/2mL				
	☐Max. Speed : 13,300rpm				
	☐Max. RCF : 17,000 x g				
	☐Noise Level: 56dbA				
	☐Temperature Range : Ambient temperature				
	☐Certifications/Compliance : CSA, CE, IVD				
	☐Type : Benchtop Centrifuge				
	☐Includes: 24 x 1.5/2.0mL rotor, 32 x 0.2mL rotor with Click Seal, Biocontainment lid				
	☐Description: Micro CL17 Centrifuge Ventilated				
	☐Electrical Requirements: 110/240V 50/60Hz				
	☐Run Time: 1 to 99min (1min increments); hold				
	☐Standards : IEC 61010-1, IEC 61010-2-020				
	☐Dimensions (HWD): 8.9 x 9.6 x 13.8in. (22.5 x 24.3 x35.2cm)				
	☐Net Weight : 23.1lb. (1.41kg)				
333	Micropipette Set	sets	2	75,000.00	150,000.00

	☑Fully autoclavable Pipettes with Carousel Stand with volume capacity:0.2-2ul, 1-10ul, 2-20ul, 10- 100ul,20-200ul,100-1000ul				
	☑Fully Autoclavable at 121 °C for 20 minutes				
	☑Triple-Speed Turbo (one rotation of triple dial is equal to 3.5 rotations of the ordinary push- button dial) and with lock lever				
	☑Mushroom-shaped button and color coded				
	☑Digital indicator				
	☑Inclusions: 200µl, Standard Tip, Graduated, Natural, PP Rack, Sterilized; 1000µl, Standard Tip, Graduated, Natural, System Rack(PP), Sterilized; 20µl, Filter Tip, System Rack(PP), Sterilized, 96 tips/rack, 10 rack/unit				
	☑Inclusions: 200µl, Standard Tip, Graduated, Natural, PP Rack, Sterilized; 1000µl, Standard Tip, Graduated, Natural, System Rack(PP), Sterilized; 20µl, Filter Tip, System Rack(PP), Sterilized, 96 tips/rack, 10 rack/unit				
334	THERMALBLOCK	unit	1	45,000.00	45,000.00
	☑Max. temperature control range: 110 °C				
	☑Min. temperature control range: -10 °C				
	☑☑Temperature accuracy: Max. ±0.5 °C at 20 – 45 °C1				
	☑Temperature settings: -10 °C/110 °C (110 °C when using the (Smart Blocks 12 mm or cryo)				
	☑Timer: 15 s to 99:30 h, continuous				
	☑Heating rate: Max. 9 °C/min (when using the Smart Block PCR 384)1				
	☑Cooling rate Max.: 5.0 °C/min between 110 °C and RT1				
	☑Interfaces: USB interface				
	☑Power supply: 220 – 240 V, 50 – 60 Hz				
	☑Max. power consumption: 200 W				
	☑Dimensions (W × D × H): 20.6 × 30.4 × 13.6 cm				
	☑Weight w/o accessories: 4.3 kg				
	☑Temperature range Min: 30 °C below RT, max: 110 °C (110 °C when Using the Smart Blocks 12 mm or cryo)				
335	Copper Sulphate, 500 grams/pack	pack	1	500.00	500.00
336	Agar-Agar	kls	4	2,800.00	11,200.00
337	Ethyl Alcohol (95%), Container Size: Water Can	canister	5	3,000.00	15,000.00
338	Plant Preservative Mixture (PPM), for plant tissue culture at least 25-30 ml per bottle	btls	2	5,000.00	10,000.00
	Rebidding (GOODS-21-32)				
339	Multi-position Hot Plate Stirrer (corrosive resistant)	unit	1	95,000.00	95,000.00
	☑3 independent heating/stirring positions				
	☑600 x 270 mm footprint or higher				
	☑robust aluminum / silicon alloy top plates or stainless steel with ceramic coating				
	☑Stirring speed: 1500rpm				
	☑Volume: 10 L				
	☑3 x 25 mm PTFE coated stir bars				
340	Top Loading Balance	unit	1	30,000.00	30,000.00
	☑Readability (d): 0.01 g				
	☑Weighing range (max): 3600 g				
	☑Taring range (subtractive): 3600 g				
	☑Reproducibility: 0.02g				
	☑Linearity: + - 0.05 g				

	☐Adjustment points: 1.0/2.0/3.0/3.6 kg				
	☐Weighing plate stainless steel mm: 130 x 130				
341	Reagent Bottle	pcs	4	300.00	1,200.00
	☐With Stopper/Screw Cap				
	☐Material: Glass/Borosilicate Glass				
	☐Color: Clear/Transparent Flask				
	☐Capacity: 2000mL				
	☐Graduation: 1800mL				
342	Reagent Bottles	pcs	10	500.00	5,000.00
	☐Amber Glass Wide Mouth Bottle Chemical Reagent Storage Bottles				
	☐250 ML capacity				
	☐Features:				
	—Glass body for chemical, thermal expansion, shock, and heat resistance.				
	—Amber glass bottles are perfect for storing materials which are sensitive to degradation from light.				
	—Wide mouth, cylindrical shape body for a wide variety of applications that require solution containment.				
	—Ground glass stopper seals the bottle to secure contents and help prevent spills and evaporation.				
	—Useful for storing both liquids and powders, widely used in chemistry and biology application				
343	Zinc Chloride, Analytical Grade, 500g/btl	btls	2	1,500.00	3,000.00
	☐AR grade, 500 g per bottle				
344	Iron Chloride, Analytical Grade, 500g/btl	btls	2	1,500.00	3,000.00
	☐AR grade, 500 g per bottle				
345	Copper Chloride, Analytical Grade, 500g/btl	btls	2	1,995.00	3,990.00
	☐Analytical grade, 500g per bottle				
346	Sulfur Powder, Analytical Grade, 500g/btl	btls	2	1,000.00	2,000.00
	☐AR grade, 500g per bottle				
347	Pipette Tips (20 ul)	pc	1	500.00	500.00
	☐20 ul capacity				
	☐autoclavable				
	☐100 pcs per pack				
348	Gloves, Nitrile, Medium	boxes	2	945.00	1,890.00
	☐Glove Type: Chemical Resistant Disposable Gloves				
	☐Glove Material: Nitrile				
	☐Powder-Free				
	☐1 box of 100 or 50 pairs				
	☐Food Safe				
	☐Size: Medium				
349	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	pc	1	950.00	950.00
	☐Stainless steel				
350	Reagent Bottles	pcs	4	750.00	3,000.00
	☐Amber Glass Wide Mouth Bottle Chemical Reagent Storage Bottles				
	☐500 mL capacity				
	☐Features:				
	—Glass body for chemical, thermal expansion, shock, and heat resistance.				

	—Amber glass bottles are perfect for storing materials which are sensitive to degradation from light.				
	—Wide mouth, cylindrical shape body for a wide variety of applications that require solution containment.				
	—Ground glass stopper seals the bottle to secure contents and help prevent spills and evaporation.				
	—Useful for storing both liquids and powders, widely used in chemistry and biology application				
351	1000 µL pipette tips (Blue)	pack	1	924.00	924.00
	☐732012 1000 µL pipette tips (Blue)				
352	200 µL pipette tips (Yellow)	pack	1	924.00	924.00
	☐732008 200 µL pipette tips (Yellow)				
353	5000 ul pipette tips (Neutral)	pack	1	2,300.00	2,300.00
	☐36015000B, 5000 ul pipette tips (Neutral)				
354	Beaker, Glass, 50mL	pcs	30	155.00	4,650.00
	☐Borosilicate glass				
355	Clevenger Apparatus	pcs	2	6,000.00	12,000.00
	☐For extracting essential oil through distillation				
356	Round Bottom Flask, 2000mL	pc	1	2,200.00	2,200.00
	☐Single Standard Mouth Round-bottomed borosilicate glass Flask Capacity 2000ml And Joint 29/32 Single Neck Round Flask				
357	Round Bottom Flask, 500mL	pc	1	1,400.00	1,400.00
	☐Single standard mouth round-bottomed borosilicate glass flask, Capacity 500ml and joint 24/29, Single neck round flask				
358	Erlenmeyer Flask, Glass, 5000mL	pc	1	3,000.00	3,000.00
	☐BOROSILICATE ERLLENMEYER FLASK 5000ml				
359	Heating Mantle	unit	1	12,000.00	12,000.00
	☐220V 500mL/1L/2L Heating Mantle & Magnetic Stirrer Stirring Temperature Regulation Digital Display Lab Electric Sleeve - 2L				
360	Glass Vials 2ml	pcs	3	1,150.00	3,450.00
	☐100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa				
361	Syringe with Needle 1cc	box	1	1,000.00	1,000.00
	☐Syringe 1cc TERUMO (With Needle), 100 units/box				
362	Microplate Replicator 96 pin	box	1	12,000.00	12,000.00
	☐96-pin replicator 1box(50pc)				
363	Inoculating Loop Stainless Steel	pack	1	1,200.00	1,200.00
	☐10PCS 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology				
364	Red Natural Rubber Tubing	pcs	20	70.00	1,400.00
	☐Natural rubber tube, Red 8mm OD 6mm ID, 2mm thickness 1 meter				
365	Hot Plate	unit	1	15,000.00	15,000.00
	☐1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug				
366	Lab Gown Long Sleeves L	pcs	2	500.00	1,000.00
	☐Lab Coat High-quality White				
	☐Size- Large; long sleeves				
367	Lab Gown Long Sleeves M	pcs	3	500.00	1,500.00
	☐Lab Coat High-quality White				

	☐Long Sleeves				
	☐Medium size				
368	Thiazolyl Blue Tetrazolium Bromide (MTT)	btls	3	4,000.00	12,000.00
	☐MTT [Thiazolyl Blue Tetrazolium Bromide], 1 Gram per bottle, soluble in water				
	☐Common Name: Thiazolyl Blue Tetrazolium Bromide				
	☐CAS Number: 298-93-1				
	☐Molecular Weight: 414.3				
	☐Chemical Formula: C ₁₈ H ₁₆ N ₅ SB _r				
	☐Solubility: Water				
	☐Storage Temperature: 2-8°				
	—Appearance: Yellow to orange yellow powder				
	—Assay (Titration): ≥ 98.0 %				
	—Heavy Metals: ≤ 5 ppm				
	—Solubility: Clear yellow solution				
	—Water Content: ≤ 0.5 %				
		TOTAL ABC (this project):			5,368,088.00

Bids received in excess of the ABC for each item shall be automatically rejected at bid opening.

2. The *Visayas State University – Main Campus* now invites bids for the above Procurement Project. Delivery of the Goods is required by *sixty (60) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *26 July – 16 August 2021 until 8:30 AM* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Ten Thousand Pesos (PhP 10,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
6. The *Visayas State University – Main Campus* will hold a Pre-Bid Conference on *August 2, 2021; 9:00 AM at the Cooperative Building, VSU Market, Visca, Baybay*

City, Leyte and/or through video conferencing or webcasting via Google Meet, which shall be open to prospective bidders.

Bidders are advised to contact the BAC Secretariat before the scheduled Pre-Bid Conference for the Google Meet link.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before *16 August 2021 until 8:30 AM*. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on *16 August 2021; 9:00 AM* at the *Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or via *Google Meet*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Google Meet link.

10. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through couriers. A proof (e.g. courier receipt, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
11. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ms. Jessamine C. Ecleo (BAC Secretariat)

Office of the Head for Procurement,

VSU-Main, Visca, Baybay City, Leyte

Mobile: 053 565 0600 local 1093 or 0998 555 0106

Email: jessamine.ecleo@vsu.edu.ph

or

Mr. Toni Marc L. Dargantes (BAC Secretariat)

Office of the VP for Planning, Resource Generation & Auxiliary Services

VSU-Main, Visca, Baybay City, Leyte

Mobile: 053 565 0600 local 1004 or 0977 7186594

Email: tmdargantes@vsu.edu.ph

13. You may visit the following websites:

For downloading of Bidding Documents: <https://www.vsu.edu.ph/philgeps-opportunities>

June 23, 2021

DILBERTO O. FERRAREN
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University*, wishes to receive Bids for the *Supply and Delivery of Laboratory Chemicals and Supplies*, with identification number *GOODS-21-35*.

The Procurement Project (referred to herein as “Project”) is composed of *368 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *2021* in the amount of *Five Million Three Hundred Sixty-Eight Thousand Eighty-Eight Pesos (PhP 5,368,088.00)*.

2.2. The source of funding is: NGA, the General Appropriations Act (GAA), Special Trust Fund, and Trust Fund.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidders should comply with the following requirements:

- i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *Twenty-Five (25%)* of the ABC for this Project; and
- ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that: **Subcontracting is not allowed.**

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **two (2 years)** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;

- iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in: Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until *December 2021*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.

- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																																																							
5.3	For this purpose, contracts similar to the Project shall be: a. <i>Laboratory Chemicals or Laboratory Supplies</i> b. completed within two (2) years prior to the deadline for the submission and receipt of bids.																																																						
7.1	Subcontracting is not allowed.																																																						
12	The price of the Goods shall be quoted <i>DDP VSU Main, Visca, Baybay City, Leyte</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.																																																						
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than <i>One Hundred Seven Thousand Three Hundred Sixty-One and 76/100 Pesos (PhP 107,361.76) or two percent (2%) of ABC</i> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>Two Hundred Sixty-Eight Thousand Four Hundred Four and 40/100 Pesos (PhP 268,404.40) or five percent (5%) of ABC</i> if bid security is in Surety Bond.																																																						
19.3	<table><tr><th>Item No.</th><th>Description</th><th>Total ABC</th></tr><tr><td>1</td><td>0.1-2.5ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable</td><td>7,000.00</td></tr><tr><td>2</td><td>0.5-10 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable</td><td>7,000.00</td></tr><tr><td>3</td><td>0.5-10 µL pipette tips (white)</td><td>6,000.00</td></tr><tr><td>4</td><td>1 mm Stage Micrometer with 10 µm Divisions</td><td>11,000.00</td></tr><tr><td>5</td><td>1.0 um Polystyrene microspheres (5 ml)/ Catalog No.: 112</td><td>14,000.00</td></tr><tr><td>6</td><td>1.µ um Polystyrene microspheres (5 ml)/ Catalog No.: 123</td><td>14,000.00</td></tr><tr><td>7</td><td>10 ml Type 1, class A borosilicate glass Beaker</td><td>1,000.00</td></tr><tr><td>8</td><td>10 ml Type 1, class A borosilicate glass Graduated Cylinder</td><td>500.00</td></tr><tr><td>9</td><td>100 ml Type 1, class A borosilicate glass Beaker</td><td>2,000.00</td></tr><tr><td>10</td><td>100 ml Type 1, class A borosilicate glass test tube</td><td>500.00</td></tr><tr><td>11</td><td>100 mm glass petri dish</td><td>18,150.00</td></tr><tr><td>12</td><td>1000- 5000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable</td><td>7,000.00</td></tr><tr><td>13</td><td>1000 ml Type 1, class A borosilicate glass Beaker</td><td>7,000.00</td></tr><tr><td>14</td><td>1000 µL pipette tips (Blue)</td><td>5,250.00</td></tr><tr><td>15</td><td>100mm Funnel Short Stem, Glass</td><td>1,190.00</td></tr><tr><td>16</td><td>10-100 ul Single Channel Pipettor, fully autoclavable</td><td>14,950.00</td></tr><tr><td>17</td><td>125 ml Erlenmeyer flask</td><td>1,200.00</td></tr></table>	Item No.	Description	Total ABC	1	0.1-2.5ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	7,000.00	2	0.5-10 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	7,000.00	3	0.5-10 µL pipette tips (white)	6,000.00	4	1 mm Stage Micrometer with 10 µm Divisions	11,000.00	5	1.0 um Polystyrene microspheres (5 ml)/ Catalog No.: 112	14,000.00	6	1.µ um Polystyrene microspheres (5 ml)/ Catalog No.: 123	14,000.00	7	10 ml Type 1, class A borosilicate glass Beaker	1,000.00	8	10 ml Type 1, class A borosilicate glass Graduated Cylinder	500.00	9	100 ml Type 1, class A borosilicate glass Beaker	2,000.00	10	100 ml Type 1, class A borosilicate glass test tube	500.00	11	100 mm glass petri dish	18,150.00	12	1000- 5000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	7,000.00	13	1000 ml Type 1, class A borosilicate glass Beaker	7,000.00	14	1000 µL pipette tips (Blue)	5,250.00	15	100mm Funnel Short Stem, Glass	1,190.00	16	10-100 ul Single Channel Pipettor, fully autoclavable	14,950.00	17	125 ml Erlenmeyer flask	1,200.00
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17	125 ml Erlenmeyer flask	1,200.00																																																					

18	2.5 um Polystyrene microspheres (5 ml)/ Catalog No. 139	14,000.00
19	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	7,000.00
20	200 ul Standard tip graduated (Yellow)	5,500.00
21	200 µL pipette tips (Yellow)	1,400.00
22	20-200 ul Single Channel Pipettor, fully autoclavable	14,950.00
23	Delicate Task Wipes	26,400.00
24	22 mm x 22 mm cover slip (0.13- 0.16 mm thickness)	1,000.00
25	2-20 ul Single Channel Pipettor, fully autoclavable	14,950.00
26	24 mm x 50mm cover glass (0.13- 0.17 mm thickness)	6,000.00
27	25 ml Type 1, class A borosilicate glass Beaker	1,600.00
28	250 ml Type 1, class A borosilicate glass Beaker	1,200.00
29	250 mm glass stirring rod	375.00
30	3 layer Non-woven surgical face mask	2,000.00
31	4-Nitrophenol or p-Nitrophenol	5,615.00
32	4-well Chamber Slide w/ removable well	17,200.00
33	50 mL High Clarity PP Centrifuge Tube, Conical Bottom, Sterile, 25pcs/bag	8,750.00
34	50 ml Type 1, class A borosilicate glass Beaker	1,600.00
35	500 ml Type 1, class A borosilicate glass Beaker	4,900.00
36	5000 ul pipette tips (Neutral)	11,500.00
37	96 well plates, polypropylene	18,500.00
38	Acetone	2,500.00
39	Acrylamide	55,000.00
40	Adipogenesis Differentiation Kit	57,000.00
41	Agar Agar	8,400.00
42	Alcohol Burner	1,700.00
43	Alcohol, Denatured	4,048.00
44	Alcohol, Ethyl, 75% solution, 1 gallon	600.00
45	Alcohol, Ethyl, 95% (Tech)	2,300.00
46	Alginate Acid Sodium Salt, Powder, 500g/btl	204,750.00
47	Aluminum Burette Clip Titration Clamp	500.00
48	Amber Glass Bottles with Dropper (100ml)	1,500.00
49	Ammonium Chloride, Analytical Grade, 500g/btl	1,500.00
50	Ammonium persulfate	4,345.00
51	Ammonium Phosphate Dibasic	2,500.00
52	Ammonium Sulfate	1,500.00
53	Analytical Balance (500/0.001 g)	14,950.00
54	Automatic Oil Press Extractor Machine (2L)	14,950.00
55	Bacillus Agar Medium	30,000.00
56	Beaker, Glass, 100mL	12,000.00
57	Beaker, Glass, 2000mL	5,000.00
58	Beaker, Glass, 250mL	4,800.00
59	Binocular	5,500.00
60	Bis-acrylamide	16,300.00
61	Boric Acid, Analytical Reagent	2,500.00
62	Bovine Calf Serum	2,500.00
63	Brush for cleaning 250mL Erlenmeyer Flask	750.00
64	Buffer Solution pH 10	2,500.00
65	Buffer Solution pH 4	2,500.00
66	Buffer solution, pH 7, 1000 ml.	4,000.00
67	Buffer solution, pH 9, 1000 ml.	1,000.00

68	C/EBP α polyclonal antibody, unconjugated	35,500.00
69	C/EBP β polyclonal antibody, unconjugated	39,000.00
70	Calcium Bromide	2,712.00
71	Calcium Chloride	6,000.00
72	Calcium Chloride Dihydrate	6,000.00
73	Calcium Phosphate	1,500.00
74	Caspase 3 polyclonal antibody, unconjugated	39,000.00
75	Cell Counting Dye	4,150.00
76	Cell Culture Dissociation Reagents	9,100.00
77	Centrifuge (Conical) Tubes, 15mL Capacity	5,700.00
78	Centrifuge (Conical) Tubes, 50mL Capacity	6,300.00
79	Cesium Fluoride	2,375.00
80	Chemiluminescence reagent	21,300.00
81	Cloth bag, pouch type	3,000.00
82	Cobalt Chloride	8,000.00
83	Cryogenic tube with screw and cap	22,550.00
84	Culture Tube, 70 mL capacity	29,700.00
85	DAPI Fluorescent Stain	16,000.00
86	Dessicator, Glass	28,000.00
87	Dextrose, Powder, AR, 250g/btl	6,000.00
88	Dial Caliper	7,600.00
89	Digital thermometer with thermocouple	12,000.00
90	Digital Thermostatic Water Bath	14,900.00
91	Digital Ultrasonic Bath	14,500.00
92	Digital Weighing Scale, 50kg	5,000.00
93	Dimethyl sulfoxide (DMSO), MBG	6,450.00
94	Dimethyl sulfoxide, Analytical reagent	5,000.00
95	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl	9,000.00
96	Dissecting Kit	2,200.00
97	Dry Heat Sterilizer, 28L	18,000.00
98	Erlenmeyer Flask, Glass, 1L	3,000.00
99	Erlenmeyer Flask, Glass, 250mL	10,400.00
100	Erlenmeyer Flask, Glass, 500mL	24,000.00
101	Ethanol	13,200.00
102	Ethanol	22,000.00
103	Ethanol	2,500.00
104	Ethyl Acetate	7,920.00
105	Ethyl Acetate	3,100.00
106	Ferrous Sulphate	2,500.00
107	Fetal/Foetal Bovine Serum (FBS)	80,000.00
108	Filter Paper	3,000.00
109	Filter Paper, 12.5 cm. Ashless 2.5 μ m pore size	11,500.00
110	Firing Cotton	1,180.00
111	Firing Wire	1,050.00
112	Funnel, Glass, 50mm	1,000.00
113	Glacial Acetic Acid	10,500.00
114	Glass Buret	5,000.00
115	Glass Slides	4,000.00
116	Gloves, Nitrile, Medium	7,500.00
117	Gloves, Nitrile, Small	12,500.00
118	Glycerol	8,450.00
119	Glycerol-based liquid fluorescent mounting medium	22,800.00

120	Glycine	22,200.00
121	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488-conjugated	18,690.00
122	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 647-conjugated	23,900.00
123	Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP-conjugated	40,200.00
124	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated	24,600.00
125	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm	2,100.00
126	Graduated Cylinder, Glass, 1000mL (2L)	3,000.00
127	Graduated Cylinder, Glass, 100mL	800.00
128	Graduated Cylinder, Glass, 250mL	4,200.00
129	Graduated Pitcher	1,000.00
130	Green 0.1 um Fluorescent Polystyrene microspheres	10,000.00
131	HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) buffer solution	7,930.00
132	Hexane 2.5L	17,500.00
133	High Precision Magnetic Pocket Transit Geological Compass Scale	1,780.00
134	High Precision Stainless Steel Digital Vernier Caliper	7,500.00
135	Hydrophilic Membrane Filter	20,000.00
136	In Situ Cell Death Detection Kit, Fluorescein	77,500.00
137	Induction Motor	8,000.00
138	Inoculating Loop Stainless Steel	2,400.00
139	Insulin, human recombinant	25,000.00
140	Lab Centrifuge, 4000rpm	14,900.00
141	Lab Gown Long Sleeves L	2,500.00
142	Lab Gown Long Sleeves M	1,500.00
143	Laboratory film	10,000.00
144	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM	14,500.00
145	Laboratory Weighing Boats, 500pcs/pack	4,000.00
146	Labware Detergent or Laboratory Dishwashing Liquid	27,500.00
147	Latex Disposable Gloves Powder Free (Medium)	3,600.00
148	LB Broth	5,750.00
149	Lemongrass Essential Oil	2,000.00
150	Lemongrass essential Oil, 15mL	2,000.00
151	Lens Tissues, 25 Sheets per Booklet, 5 Booklets	4,000.00
152	Lithium Bromide	1,250.00
153	Lithium Chloride	7,000.00
154	Lithium Iodide	1,050.00
155	Low Autofluorescence Immersion Oil, n = 1.518, Type F, 30 mL	12,000.00
156	Magnesium chloride, MgCl ₂	3,000.00
157	Magnesium Nitrate	1,947.00
158	Malt Yeast Extract Agar	1,578.00
159	Manganese Sulphate	2,000.00
160	Methanol 2.5L	3,600.00
161	Methanol or Methyl alcohol	7,800.00
162	Micro pipette, with stand, P10 (0.5-10ul)	8,060.00
163	Micro pipette, with stand, P100 (10-100ul)	8,060.00
164	Micro pipette, with stand, P1000 (200-1000ul)	8,060.00

165	Microcentrifuge Tube, 0.5mL, Attached Snap Cap, Clear/ Natural	3,600.00
166	Microcentrifuge Tube, 1.5mL, Attached Snap Cap, Clear/ Natural	4,200.00
167	Microcentrifuge Tubes (1.5mL Capacity)	3,000.00
168	Microcentrifuge Tubes (2.0mL Capacity)	6,000.00
169	Micropipette Tip, 10 uL	3,000.00
170	Microscope Eyepiece Reticle or Ocular Micrometer	17,500.00
171	Microscope Slides and cover slips	740.00
172	Microtube Storage Racks	5,000.00
173	Mini Dry Bath	14,500.00
174	Mortar and Pestle (small)	300.00
175	MTT (3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide)	16,700.00
176	N95 Particulate Filter Respirator and Surgical Mask	10,000.00
177	N-octanol	1,616.00
178	Nutrient Agar, 500g	38,185.00
179	Oil Red O, Biological Stain	7,500.00
180	Open Reel Measuring Tape	4,000.00
181	Ordinary Vernier Caliper	550.00
182	Paraformaldehyde	8,750.00
183	Peptone	10,000.00
184	Perilipin 1 Polyclonal Antibody, unconjugated	38,640.00
185	Petri dish	10,000.00
186	Petroleum Ether, AR	7,000.00
187	pH Meter pen type	5,000.00
188	Phenolphthalein Indicator Powder	1,000.00
189	PI-3 Kinase p110 α antibody, unconjugated	41,400.00
190	Picric Acid, 1Li./Bottle	7,000.00
191	Pikovskaya Agar, Powder, 500g/btl	30,500.00
192	Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound)	6,800.00
193	Pipette Tips (20 ul)	2,500.00
194	Plastic cup with cover	165.00
195	Portable pH Meter with Temperature probe	14,000.00
196	Potassium Acetate	2,000.00
197	Potassium Bromide	6,000.00
198	Potassium Carbonate	2,000.00
199	Potassium Chloride	1,500.00
200	Potassium chloride (KCl) solution	5,090.00
201	Potassium Chloride, AR, 1000g	7,500.00
202	Potassium Chromate	1,050.00
203	Potassium dihydrogen phosphate, AR, 500g	2,500.00
204	Potassium Fluoride	1,832.00
205	Potassium Hydroxide	8,400.00
206	Potassium iodide, KI	6,000.00
207	Potassium Nitrate	5,800.00
208	Potassium sulfate, K ₂ SO ₄	7,600.00
209	Potato Dextrose Agar (PDA), 500 grams	18,000.00
210	Potato Starch	12,000.00
211	Potentiometer	400.00
212	PPAR γ polyclonal antibody, unconjugated	35,800.00

213	Propidium iodide - Fluorescent Stains	18,750.00
214	Protease Inhibitor, Complete	59,500.00
215	Protein A Agarose	59,000.00
216	Protein Standard/Ladder, Pre-stained	21,600.00
217	PVDF membrane for Western blotting, 8.6 x 13.5 cm	82,000.00
218	PVDF Syringe Filters, Size: 0.2 um/ at least 17mm	10,000.00
219	PVDF Syringe Filters, Size: 0.45 um/ at least 17mm	10,000.00
220	Reagent Bottle 250mL	2,000.00
221	Reagent Bottle 500mL	5,000.00
222	Reagent Bottle	3,000.00
223	Reagent Grade NaOH Pellets, 500g	3,000.00
224	Resealable Plastic Bag, Large	1,000.00
225	Resealable Plastic Bag, Medium	450.00
226	Resealable Plastic Bag, Small	300.00
227	RNA isolation Reagent	45,000.00
228	Scalpel Blade	280.00
229	Scalpel Handle	140.00
230	Sieve no.10 with cover and pan	10,000.00
231	Sieve no.50 with cover and pan	22,000.00
232	Silver	15,000.00
233	Silver Nitrate, AgNO ₃	45,000.00
234	Skim Milk	5,000.00
235	Sodium Bromide, NaBr	2,000.00
236	Sodium Chloride	8,800.00
237	Sodium dodecyl sulfate (SDS)	27,000.00
238	Sodium Hydroxide, AR 500G	3,600.00
239	Sodium Hydroxide, Technical Grade, 1KG, Pellets	1,000.00
240	Sodium Iodide	1,702.00
241	Sodium Nitrate	527.00
242	Stage Micrometer (1 mm ruled with 0.01 mm division, glass slide)	4,500.00
243	Stainless Steel Crucible Tongs	1,000.00
244	Stainless Steel Laboratory Microspatula	4,200.00
245	Stainless Steel Mesh Sieve, #5	5,000.00
246	Standard Berlese Funnel (Tullgren Funnel)	9,500.00
247	Standard Buffer solution	1,500.00
248	Standard Method Agar (PCA)	30,000.00
249	Standard Size Marble Base Titration Stand	2,500.00
250	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk	18,000.00
251	Stirring Rod	600.00
252	Strontium Chloride, 500g	4,000.00
253	Strontium Nitrate	1,050.00
254	Sucrose	3,000.00
255	Sulfuric acid, H ₂ SO ₄	2,600.00
256	Temperature-Humidity Data Logger	2,000.00
257	Test Tube (Medium), Glass, 15 x 125mm	12,500.00
258	Test Tube (Small), Glass, 12 x 75mm	10,000.00
	■ 12x75 mm glass (borosilicate)	
259	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	2,400.00
	■ Stainless steel	
260	Test Tube Rack, 13mm, 90 placer	4,500.00

261	Test Tube Rack, 20 mm x 24 tubes	2,400.00
262	Test Tube Racks, 12MM x 12Holes	2,400.00
263	Test Tube, Borosilicate Glass, Rimless, 20 x 150 mm	5,000.00
264	Test Tube, Glass, Graduated, 50mL	11,000.00
265	Test tube/ Bottle Cleaning Brush	500.00
266	Toluene	7,300.00
267	Triglyceride Assay Kit (luminescence detection method)	102,000.00
268	Triton X-100	9,120.00
269	Trizma base	46,650.00
270	Vernier Caliper	7,200.00
271	Volumetric Flask 100ml	4,000.00
272	Volumetric Flask 25mL	6,600.00
273	Volumetric Flask 50ml	2,500.00
274	Vortex Mixer, 220V, 2800RPM	14,000.00
275	Wash Bottle, 250mL cap.	1,400.00
276	Watch Glass	1,500.00
277	Weighing Scale, Hanging, Analog	6,000.00
278	Woven Filters, Nylon Mesh, 10pcs/pack	44,400.00
279	Yeast Extract, Powder, 250g/btl	9,660.00
280	Zinc Bromide	3,467.00
281	β -actin polyclonal antibody, unconjugated	24,500.00
282	β -catenin polyclonal antibody, unconjugated	40,000.00
	Rebidding (GOODS-21-25)	
283	Temperature Data Logger	4,500.00
284	Contact cleaner	3,500.00
285	Polyethylene Glycol (PEG) 6000,	700.00
286	Burette Brush	300.00
287	Filter Paper, 12.5 cm. Ashless #42, 100pcs. per box	7,200.00
288	1 kb Plus DNA Ladder	7,700.00
289	Agarose LE	5,680.00
290	Custom oligo primers	11,000.00
291	Delicate Task Wipes	4,800.00
292	PCR loading dye	9,600.00
293	LB Broth	1,150.00
294	Gloves, Nitrile, Large	5,000.00
295	Gloves, Nitrile, Medium	4,000.00
296	Brush Suitable for 10mL Graduated Cylinder	600.00
297	Brush Suitable for 50mL Graduated Cylinders	600.00
298	Brush Suitable for 100mL Graduated Cylinders	600.00
299	Water Quality Test Meter	6,000.00
300	Temperature-Humidity Data Logger	8,000.00
301	Dissolved Oxygen Meter	11,000.00
302	Laboratory Burette Stand	3,000.00
303	Analytical Balance	29,240.00
304	Reagent Bottle	900.00
305	Brush for cleaning 250mL Erlenmeyer Flask	750.00
306	Brush Suitable for cleaning 500mL Erlenmeyer Flask	750.00
307	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage	50,000.00
308	Activated Acid-washed Charcoal	15,000.00
309	Ethanol	3,000.00
310	Naphthaleneacetic Acid, 5g per bottle	17,000.00

311	Phytigel, Sigma	280,000.00
312	Dispensing pump for culture media	60,000.00
313	Distilling Apparatus	150,000.00
314	Potassium dihydrogen phosphate, AR	1,000.00
315	Triethanolamine, AR	9,000.00
316	Alcohol, Denatured	1,771.00
317	Hydrochloric Acid	600.00
318	Glass Jar 12oz	5,760.00
319	Glass Jar 8oz	4,680.00
320	Myo-inositol	4,800.00
321	Agar (E-406)	2,400.00
322	■Pronadisa-delete	
323	Scalpel Blade	2,240.00
324	Volumetric Flask	1,080.00
325	Volumetric Flask 100ml	1,500.00
326	96-Well Plates, Polypropylene	18,500.00
327	Alcohol, Ethyl, 95% (Tech)	230.00
328	Tri-power Stereo Microscope	100,000.00
329	Table Type Vacuum Packaging Machine	33,900.00
330	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity	140,000.00
331	ELISA READER	580,000.00
332	MICRO CENTRIFUGE , (Ventilated)	45,000.00
333	Micropipette Set	150,000.00
334	THERMALBLOCK	45,000.00
335	Copper Sulphate, 500 grams/pack	500.00
336	Agar-Agar	11,200.00
337	Ethyl Alcohol (95%), Container Size: Water Can	15,000.00
338	Plant Preservative Mixture (PPM), for plant tissue culture at least 25-30 ml per bottle	10,000.00
	Rebidding (GOODS-21-32)	
339	Multi-position Hot Plate Stirrer (corrosive resistant)	95,000.00
340	Top Loading Balance	30,000.00
341	Reagent Bottle	1,200.00
342	Reagent Bottles	5,000.00
343	Zinc Chloride, Analytical Grade, 500g/btl	3,000.00
344	Iron Chloride, Analytical Grade, 500g/btl	3,000.00
345	Copper Chloride, Analytical Grade, 500g/btl	3,990.00
346	Sulfur Powder, Analytical Grade, 500g/btl	2,000.00
347	Pipette Tips (20 ul)	500.00
348	Gloves, Nitrile, Medium	1,890.00
349	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	950.00
350	Reagent Bottles	3,000.00
351	1000 µL pipette tips (Blue)	924.00
352	200 µL pipette tips (Yellow)	924.00
353	5000 ul pipette tips (Neutral)	2,300.00
354	Beaker, Glass, 50mL	4,650.00
355	Clevenger Apparatus	12,000.00
356	Round Bottom Flask, 2000mL	2,200.00
357	Round Bottom Flask, 500mL	1,400.00
358	Erlenmeyer Flask, Glass, 5000mL	3,000.00
359	Heating Mantle	12,000.00
360	Glass Vials 2ml	3,450.00

	361	Syringe with Needle 1cc	1,000.00
	362	Microplate Replicator 96 pin	12,000.00
	363	Inoculating Loop Stainless Steel	1,200.00
	364	Red Natural Rubber Tubing	1,400.00
	365	Hot Plate	15,000.00
	366	Lab Gown Long Sleeves L	1,000.00
	367	Lab Gown Long Sleeves M	1,500.00
	368	Thiazolyl Blue Tetrazolium Bromide (MTT)	12,000.00
20.2	In case the PhilGEPS Platinum Certificate of Registration is not available during bid submission, it shall be submitted as a post-qualification requirement, in accordance with Section 34.2 of the 2016 Revised IRR of R.A. 9184.		
21.2	<i>Not Applicable.</i>		

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery terms applicable to this Contract are delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><i>Ms. Alicia M. Flores</i> <i>Head, Supply and Property Management Office,</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082 / 0917 6341 430</i></p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	<p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p>

	<p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and b. in the event of termination of production of the spare parts: <ul style="list-style-type: none"> i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested. <p>The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the cost thereof is included in the contract price.</p> <p>The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of 3 years.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 month of placing the order.</p>
	<p>Packaging –</p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier</p>

	<p>Contract Description</p> <p>Final Destination</p> <p>Gross weight</p> <p>Any special lifting instructions</p> <p>Any special handling instructions</p> <p>Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>

2.2	Payment shall be done upon full delivery of the items and compliance of all terms specified in the Purchase Order/Contract.
4	The inspections and tests that will be conducted will be specified by the appropriate technical team of VSU Main to confirm conformity to the contract specifications at no extra cost to VSU.

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item No.	Description	Delivered, Weeks/Months
1	0.1-2.5ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	All Items Should Be Delivered Within 60 Calendar Days From Receipt Of Notice To Proceed And Purchase Order
2	0.5-10 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
3	0.5-10 μ L pipette tips (white)	
4	1 mm Stage Micrometer with 10 μ m Divisions	
5	1.0 um Polystyrene microspheres (5 ml)/ Catalog No.: 112	
6	1.5 um Polystyrene microspheres (5 ml)/ Catalog No.: 123	
7	10 ml Type 1, class A borosilicate glass Beaker	
8	10 ml Type 1, class A borosilicate glass Graduated Cylinder	
9	100 ml Type 1, class A borosilicate glass Beaker	
10	100 ml Type 1, class A borosilicate glass test tube	
11	100 mm glass petri dish	
12	1000- 5000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
13	1000 ml Type 1, class A borosilicate glass Beaker	
14	1000 μ L pipette tips (Blue)	
15	100mm Funnel Short Stem, Glass	
16	10-100 ul Single Channel Pipettor, fully autoclavable	
17	125 ml Erlenmeyer flask	
18	2.5 um Polystyrene microspheres (5 ml)/ Catalog No.: 139	
19	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
20	200 ul Standard tip graduated (Yellow)	
21	200 μ L pipette tips (Yellow)	
22	20-200 ul Single Channel Pipettor, fully autoclavable	
23	Delicate Task Wipes	
24	22 mm x 22 mm cover slip (0.13- 0.16 mm thickness)	
25	2-20 ul Single Channel Pipettor, fully autoclavable	
26	24 mm x 50mm cover glass (0.13- 0.17 mm thickness)	
27	25 ml Type 1, class A borosilicate glass Beaker	
28	250 ml Type 1, class A borosilicate glass Beaker	
29	250 mm glass stirring rod	
30	3 layer Non-woven surgical face mask	
31	4-Nitrophenol or p-Nitrophenol	
32	4-well Chamber Slide w/ removable well	
33	50 mL High Clarity PP Centrifuge Tube, Conical Bottom, Sterile, 25pcs/bag	
34	50 ml Type 1, class A borosilicate glass Beaker	
35	500 ml Type 1, class A borosilicate glass Beaker	
36	5000 ul pipette tips (Neutral)	
37	96 well plates, polypropylene	
38	Acetone	
39	Acrylamide	

40	Adipogenesis Differentiation Kit
41	Agar Agar
42	Alcohol Burner
43	Alcohol, Denatured
44	Alcohol, Ethyl, 75% solution, 1 gallon
45	Alcohol, Ethyl, 95% (Tech)
46	Alginate Acid Sodium Salt, Powder, 500g/btl
47	Aluminum Burette Clip Titration Clamp
48	Amber Glass Bottles with Dropper (100ml)
49	Ammonium Chloride, Analytical Grade, 500g/btl
50	Ammonium persulfate
51	Ammonium Phosphate Dibasic
52	Ammonium Sulfate
53	Analytical Balance (500/0.001 g)
54	Automatic Oil Press Extractor Machine (2L)
55	Bacillus Agar Medium
56	Beaker, Glass, 100mL
57	Beaker, Glass, 2000mL
58	Beaker, Glass, 250mL
59	Binocular
60	Bis-acrylamide
61	Boric Acid, Analytical Reagent
62	Bovine Calf Serum
63	Brush for cleaning 250mL Erlenmeyer Flask
64	Buffer Solution pH 10
65	Buffer Solution pH 4
66	Buffer solution, pH 7, 1000 ml.
67	Buffer solution, pH 9, 1000 ml.
68	C/EBP α polyclonal antibody, unconjugated
69	C/EBP β polyclonal antibody, unconjugated
70	Calcium Bromide
71	Calcium Chloride
72	Calcium Chloride Dihydrate
73	Calcium Phosphate
74	Caspase 3 polyclonal antibody, unconjugated
75	Cell Counting Dye
76	Cell Culture Dissociation Reagents
77	Centrifuge (Conical) Tubes, 15mL Capacity
78	Centrifuge (Conical) Tubes, 50mL Capacity
79	Cesium Fluoride
80	Chemiluminescence reagent
81	Cloth bag, pouch type
82	Cobalt Chloride
83	Cryogenic tube with screw and cap
84	Culture Tube, 70 mL capacity
85	DAPI Fluorescent Stain
86	Dessicator, Glass
87	Dextrose, Powder, AR, 250g/btl
88	Dial Caliper
89	Digital thermometer with thermocouple
90	Digital Thermostatic Water Bath
91	Digital Ultrasonic Bath

92	Digital Weighing Scale, 50kg
93	Dimethyl sulfoxide (DMSO), MBG
94	Dimethyl sulfoxide, Analytical reagent
95	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl
96	Dissecting Kit
97	Dry Heat Sterilizer, 28L
98	Erlenmeyer Flask, Glass, 1L
99	Erlenmeyer Flask, Glass, 250mL
100	Erlenmeyer Flask, Glass, 500mL
101	Ethanol
102	Ethanol
103	Ethanol
104	Ethyl Acetate
105	Ethyl Acetate
106	Ferrous Sulphate
107	Fetal/Foetal Bovine Serum (FBS)
108	Filter Paper
109	Filter Paper, 12.5 cm. Ashless 2.5um pore size
110	Firing Cotton
111	Firing Wire
112	Funnel, Glass, 50mm
113	Glacial Acetic Acid
114	Glass Buret
115	Glass Slides
116	Gloves, Nitrile, Medium
117	Gloves, Nitrile, Small
118	Glycerol
119	Glycerol-based liquid fluorescent mounting medium
120	Glycine
121	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488-conjugated
122	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 647-conjugated
123	Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP-conjugated
124	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated
125	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm
126	Graduated Cylinder, Glass, 1000mL (2L)
127	Graduated Cylinder, Glass, 100mL
128	Graduated Cylinder, Glass, 250mL
129	Graduated Pitcher
130	Green 0.1 um Fluorescent Polystyrene microspheres
131	HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) buffer solution
132	Hexane 2.5L
133	High Precision Magnetic Pocket Transit Geological Compass Scale
134	High Precision Stainless Steel Digital Vernier Caliper
135	Hydrophilic Membrane Filter
136	In Situ Cell Death Detection Kit, Fluorescein

137	Induction Motor
138	Inoculating Loop Stainless Steel
139	Insulin, human recombinant
140	Lab Centrifuge, 4000rpm
141	Lab Gown Long Sleeves L
142	Lab Gown Long Sleeves M
143	Laboratory film
144	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM
145	Laboratory Weighing Boats, 500pcs/pack
146	Labware Detergent or Laboratory Dishwashing Liquid
147	Latex Disposable Gloves Powder Free (Medium)
148	LB Broth
149	Lemongrass Essential Oil
150	Lemongrass essential Oil, 15mL
151	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
152	Lithium Bromide
153	Lithium Chloride
154	Lithium Iodide
155	Low Autofluorescence Immersion Oil, n = 1.518, Type F, 30 mL
156	Magnesium chloride, MgCl ₂
157	Magnesium Nitrate
158	Malt Yeast Extract Agar
159	Manganese Sulphate
160	Methanol 2.5L
161	Methanol or Methyl alcohol
162	Micro pipette, with stand, P10 (0.5-10ul)
163	Micro pipette, with stand, P100 (10-100ul)
164	Micro pipette, with stand, P1000 (200-1000ul)
165	Microcentrifuge Tube, 0.5mL, Attached Snap Cap, Clear/ Natural
166	Microcentrifuge Tube, 1.5mL, Attached Snap Cap, Clear/ Natural
167	Microcentrifuge Tubes (1.5mL Capacity)
168	Microcentrifuge Tubes (2.0mL Capacity)
169	Micropipette Tip, 10 uL
170	Microscope Eyepiece Reticle or Ocular Micrometer
171	Microscope Slides and cover slips
172	Microtube Storage Racks
173	Mini Dry Bath
174	Mortar and Pestle (small)
175	MTT (3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide)
176	N95 Particulate Filter Respirator and Surgical Mask
177	N-octanol
178	Nutrient Agar, 500g
179	Oil Red O, Biological Stain
180	Open Reel Measuring Tape
181	Ordinary Vernier Caliper
182	Paraformaldehyde
183	Peptone
184	Perilipin 1 Polyclonal Antibody, unconjugated

185	Petri dish
186	Petroleum Ether, AR
187	pH Meter pen type
188	Phenolphthalein Indicator Powder
189	PI-3 Kinase p110 α antibody, unconjugated
190	Picric Acid, 1Li./Bottle
191	Pikovskaya Agar, Powder, 500g/btl
192	Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound)
193	Pipette Tips (20 ul)
194	Plastic cup with cover
195	Portable pH Meter with Temperature probe
196	Potassium Acetate
197	Potassium Bromide
198	Potassium Carbonate
199	Potassium Chloride
200	Potassium chloride (KCl) solution
201	Potassium Chloride, AR, 1000g
202	Potassium Chromate
203	Potassium dihydrogen phosphate, AR, 500g
204	Potassium Fluoride
205	Potassium Hydroxide
206	Potassium iodide, KI
207	Potassium Nitrate
208	Potassium sulfate, K ₂ SO ₄
209	Potato Dextrose Agar (PDA), 500 grams
210	Potato Starch
211	Potentiometer
212	PPAR γ polyclonal antibody, unconjugated
213	Propidium iodide - Fluorescent Stains
214	Protease Inhibitor, Complete
215	Protein A Agarose
216	Protein Standard/Ladder, Pre-stained
217	PVDF membrane for Western blotting, 8.6 x 13.5 cm
218	PVDF Syringe Filters, Size: 0.2 um/ at least 17mm
219	PVDF Syringe Filters, Size: 0.45 um/ at least 17mm
220	Reagent Bottle 250mL
221	Reagent Bottle 500mL
222	Reagent Bottle
223	Reagent Grade NaOH Pellets, 500g
224	Resealable Plastic Bag, Large
225	Resealable Plastic Bag, Medium
226	Resealable Plastic Bag, Small
227	RNA isolation Reagent
228	Scalpel Blade
229	Scalpel Handle
230	Sieve no.10 with cover and pan
231	Sieve no.50 with cover and pan
232	Silver
233	Silver Nitrate, AgNO ₃
234	Skim Milk
235	Sodium Bromide, NaBr
236	Sodium Chloride

237	Sodium dodecyl sulfate (SDS)
238	Sodium Hydroxide, AR 500G
239	Sodium Hydroxide, Technical Grade, 1KG, Pellets
240	Sodium Iodide
241	Sodium Nitrate
242	Stage Micrometer (1 mm ruled with 0.01 mm division, glass slide)
243	Stainless Steel Crucible Tongs
244	Stainless Steel Laboratory Microspatula
245	Stainless Steel Mesh Sieve, #5
246	Standard Berlese Funnel (Tullgren Funnel)
247	Standard Buffer solution
248	Standard Method Agar (PCA)
249	Standard Size Marble Base Titration Stand
250	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk
251	Stirring Rod
252	Strontium Chloride, 500g
253	Strontium Nitrate
254	Sucrose
255	Sulfuric acid, H ₂ SO ₄
256	Temperature-Humidity Data Logger
257	Test Tube (Medium), Glass, 15 x 125mm
258	Test Tube (Small), Glass, 12 x 75mm
	■12x75 mm glass (borosilicate)
259	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
	■Stainless steel
260	Test Tube Rack, 13mm, 90 placer
261	Test Tube Rack, 20 mm x 24 tubes
262	Test Tube Racks, 12MM x 12Holes
263	Test Tube, Borosilicate Glass, Rimless, 20 x 150 mm
264	Test Tube, Glass, Graduated, 50mL
265	Test tube/ Bottle Cleaning Brush
266	Toluene
267	Triglyceride Assay Kit (luminescence detection method)
268	Triton X-100
269	Trizma base
270	Vernier Caliper
271	Volumetric Flask 100ml
272	Volumetric Flask 25mL
273	Volumetric Flask 50ml
274	Vortex Mixer, 220V, 2800RPM
275	Wash Bottle, 250mL cap.
276	Watch Glass
277	Weighing Scale, Hanging, Analog
278	Woven Filters, Nylon Mesh, 10pcs/pack
279	Yeast Extract, Powder, 250g/btl
280	Zinc Bromide
281	β-actin polyclonal antibody, unconjugated
282	β-catenin polyclonal antibody, unconjugated
	Rebidding (GOODS-21-25)
283	Temperature Data Logger

284	Contact cleaner
285	Polyethylene Glycol (PEG) 6000,
286	Burette Brush
287	Filter Paper, 12.5 cm. Ashless #42, 100pcs. per box
288	1 kb Plus DNA Ladder
289	Agarose LE
290	Custom oligo primers
291	Delicate Task Wipes
292	PCR loading dye
293	LB Broth
294	Gloves, Nitrile, Large
295	Gloves, Nitrile, Medium
296	Brush Suitable for 10mL Graduated Cylinder
297	Brush Suitable for 50mL Graduated Cylinders
298	Brush Suitable for 100mL Graduated Cylinders
299	Water Quality Test Meter
300	Temperature-Humidity Data Logger
301	Dissolved Oxygen Meter
302	Laboratory Burette Stand
303	Analytical Balance
304	Reagent Bottle
305	Brush for cleaning 250mL Erlenmeyer Flask
306	Brush Suitable for cleaning 500mL Erlenmeyer Flask
307	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage
308	Activated Acid-washed Charcoal
309	Ethanol
310	Naphthaleneacetic Acid, 5g per bottle
311	Phytigel, Sigma
312	Dispensing pump for culture media
313	Distilling Apparatus
314	Potassium dihydrogen phosphate, AR
315	Triethanolamine, AR
316	Alcohol, Denatured
317	Hydrochloric Acid
318	Glass Jar 12oz
319	Glass Jar 8oz
320	Myo-inositol
321	Agar (E-406)
322	■Pronadisa-delete
323	Scalpel Blade
324	Volumetric Flask
325	Volumetric Flask 100ml
326	96-Well Plates, Polypropylene
327	Alcohol, Ethyl, 95% (Tech)
328	Tri-power Stereo Microscope
329	Table Type Vacuum Packaging Machine
330	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity
331	ELISA READER
332	MICRO CENTRIFUGE , (Ventilated)
333	Micropipette Set
334	THERMALBLOCK

335	Copper Sulphate, 500 grams/pack
336	Agar-Agar
337	Ethyl Alcohol (95%), Container Size: Water Can
338	Plant Preservative Mixture (PPM), for plant tissue culture at least 25-30 ml per bottle
	Rebidding (GOODS-21-32)
339	Multi-position Hot Plate Stirrer (corrosive resistant)
340	Top Loading Balance
341	Reagent Bottle
342	Reagent Bottles
343	Zinc Chloride, Analytical Grade, 500g/btl
344	Iron Chloride, Analytical Grade, 500g/btl
345	Copper Chloride, Analytical Grade, 500g/btl
346	Sulfur Powder, Analytical Grade, 500g/btl
347	Pipette Tips (20 ul)
348	Gloves, Nitrile, Medium
349	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes
350	Reagent Bottles
351	1000 µL pipette tips (Blue)
352	200 µL pipette tips (Yellow)
353	5000 ul pipette tips (Neutral)
354	Beaker, Glass, 50mL
355	Clevenger Apparatus
356	Round Bottom Flask, 2000mL
357	Round Bottom Flask, 500mL
358	Erlenmeyer Flask, Glass, 5000mL
359	Heating Mantle
360	Glass Vials 2ml
361	Syringe with Needle 1cc
362	Microplate Replicator 96 pin
363	Inoculating Loop Stainless Steel
364	Red Natural Rubber Tubing
365	Hot Plate
366	Lab Gown Long Sleeves L
367	Lab Gown Long Sleeves M
368	Thiazolyl Blue Tetrazolium Bromide (MTT)

Section VII. Technical Specifications

Technical Specifications

Item No.	Description	STATEMENT OF COMPLIANCE
1	0.1-2.5ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
2	0.5-10 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
3	0.5-10 µL pipette tips (white)	
4	1 mm Stage Micrometer with 10 µm Divisions	
	■R1L3S2P - 1 mm Stage Micrometer with 10 µm Divisions, 3" x 1", Soda Lime Glass	
5	1.0 um Polystyrene microspheres (5 ml)/ Catalog No.: 112	
6	1.5 um Polystyrene microspheres (5 ml)/ Catalog No.: 123	
7	10 ml Type 1, class A borosilicate glass Beaker	
8	10 ml Type 1, class A borosilicate glass Graduated Cylinder	
9	100 ml Type 1, class A borosilicate glass Beaker	
10	100 ml Type 1, class A borosilicate glass test tube	
11	100 mm glass petri dish	
12	1000- 5000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
13	1000 ml Type 1, class A borosilicate glass Beaker	
14	1000 µL pipette tips (Blue)	
15	100mm Funnel Short Stem, Glass	
16	10-100 ul Single Channel Pipettor, fully autoclavable	
17	125 ml Erlenmeyer flask	
18	2.5 um Polystyrene microspheres (5 ml)/ Catalog No.: 139	
19	200- 1000 ul Mechanical Autoclavable Pipette Single Channel Pipettor, Fully Autoclavable	
20	200 ul Standard tip graduated (Yellow)	
21	200 µL pipette tips (Yellow)	
22	20-200 ul Single Channel Pipettor, fully autoclavable	
23	Delicate Task Wipes	
	■4.4 x 8.4 inches (11 x 21 cm) ■280 sheets/box ■lint-free	
24	22 mm x 22 mm cover slip (0.13- 0.16 mm thickness)	
25	2-20 ul Single Channel Pipettor, fully autoclavable	
26	24 mm x 50mm cover glass (0.13- 0.17 mm thickness)	
27	25 ml Type 1, class A borosilicate glass Beaker	
28	250 ml Type 1, class A borosilicate glass Beaker	
29	250 mm glass stirring rod	
30	3 layer Non-woven surgical face mask	
31	4-Nitrophenol or p-Nitrophenol	
	■Analytical standard, Powder or crystal form, HPLC suitable Vial of 1g	
32	4-well Chamber Slide w/ removable well	
33	50 mL High Clarity PP Centrifuge Tube, Conical Bottom, Sterile, 25pcs/bag	
34	50 ml Type 1, class A borosilicate glass Beaker	

35	500 ml Type 1, class A borosilicate glass Beaker
36	5000 ul pipette tips (Neutral)
37	96 well plates, polypropylene
38	Acetone
	<ul style="list-style-type: none"> Acetone, Technical Grade 1gal
39	Acrylamide
	<ul style="list-style-type: none"> Molecular biology grade, at least $\geq 99.0\%$ assay quality Suitable for protein analysis and electrophoresis Dnase-free and Rnase-free Bottle of at least 500g
40	Adipogenesis Differentiation Kit
	<ul style="list-style-type: none"> Molecular Biology grade Suitable for mammalian cell culture Liquid form ≤ 50 EU/ml endotoxin level High glucose NO HEPES and phenol red With adipogenesis supplements Kit of at least 100mL basal medium and 10mL supplement
41	Agar Agar
42	Alcohol Burner
	<ul style="list-style-type: none"> Burner Lamp Clear Glass Lab 150mL
43	Alcohol, Denatured
44	Alcohol, Ethyl, 75% solution, 1 gallon
45	Alcohol, Ethyl, 95% (Tech)
46	Alginate Acid Sodium Salt, Powder, 500g/btl
47	Aluminum Burette Clip Titration Clamp
48	Amber Glass Bottles with Dropper (100ml)
	compatible with the 50 ml capacity Glass Burette materials is Aluminum
49	Ammonium Chloride, Analytical Grade, 500g/btl
	AR grade, 500g per bottle
50	Ammonium persulfate
	Molecular biology; at least $\geq 98.0\%$ 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
51	Ammonium Phosphate Dibasic
	<ul style="list-style-type: none"> Analytical Grade 500 G bottle
52	Ammonium Sulfate
	<ul style="list-style-type: none"> Anhydrous Lab grade/ Analytical reagent grade Expiration date (3 years from the delivery date) Packed in Teflon bottles
53	Analytical Balance (500/0.001 g)
	Lab Analytical Balance Scale 0.001g
54	Automatic Oil Press Extractor Machine (2L)
	Automatic Oil Press Extractor Machine (220 V)
55	Bacillus Agar Medium

	<ul style="list-style-type: none"> ☐ Powder form ☐ 500 G ☐ Suitable as differential medium for rapid identification of <i>Bacillus</i> species 	
56	Beaker, Glass, 100mL	
	☐ 100mL capacity, borosilicate glass	
57	Beaker, Glass, 2000mL	
	☐ 2000mL capacity, borosilicate glass	
58	Beaker, Glass, 250mL	
	<ul style="list-style-type: none"> ☐ Low Form Beaker ☐ Borosilicate Glass ☐ Transparent Beaker ☐ Thickened With Spout 	
59	Binocular	
	<ul style="list-style-type: none"> ☐ preferably 7-10X magnification; 35-50 exit pupil ☐ waterproof, fog proof, weather resistant 	
60	Bis-acrylamide	
	<ul style="list-style-type: none"> ☐ Molecular biology grade, ≥99.5% assay quality ☐ Suitable for protein analysis and electrophoresis ☐ Dnase-free and Rnase-free ☐ Bottle of at least 100g 	
61	Boric Acid, Analytical Reagent	
62	Bovine Calf Serum	
	<ul style="list-style-type: none"> ☐ Molecular biology grade ☐ Suitable for mammalian cell culture ☐ Hemoglobin, ≤35 mg/dL; ≤10 EU/mL endotoxin ☐ Sterile-filtered ☐ Bottle of at least 100mL 	
63	Brush for cleaning 250mL Erlenmeyer Flask	
	<ul style="list-style-type: none"> ☐ Bristle Color: White Bristle ☐ Brush+Handle Length: 12" ☐ Brush Diameter: 1 3/8" ☐ Brush Length: 3 1/2" ☐ Suitable for cleaning 250mL Erlenmeyer Flask 	
64	Buffer Solution pH 10	
65	Buffer Solution pH 4	
66	Buffer solution, pH 7, 1000 ml.	
67	Buffer solution, pH 9, 1000 ml.	
68	C/EBPα polyclonal antibody, unconjugated	
	<ul style="list-style-type: none"> ☐ C/EBPα polyclonal antibody, unconjugated ☐ Molecular Biology grade ☐ Suitable for mammalian cell culture ☐ For Western Blot, IF, ICC, IHC ☐ Reactive to Human, Mouse, Rat ☐ Host/Isotype: Rabbit / IgG ☐ Concentration: 1 mg/mL ☐ Vial of 100ug 	
69	C/EBPβ polyclonal antibody, unconjugated	

	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Vial of at least 100uL
70	Calcium Bromide
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
71	Calcium Chloride
	☐AR Grade, 500g
72	Calcium Chloride Dihydrate
	<ul style="list-style-type: none"> ☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards ☐Chemical must be plant tissue culture tested for at least 20 years ☐ISO complaint ☐ACS REAG ☐PH EUR ☐meets USP Standards ☐Bioreagent suitable for cell culture ☐500g
73	Calcium Phosphate
	<ul style="list-style-type: none"> ☐Analytical Grade ☐500 G bottle
74	Caspase 3 polyclonal antibody, unconjugated
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Concentration: 0.5 mg/mL ☐Vial of at least 100uL ☐unconjugated
75	Cell Counting Dye
	<ul style="list-style-type: none"> "☐Molecular biology grade ☐Suitable for all types of cell lines ☐Microscopic counting or machine counting compatible ☐Colorimetric detection method ☐Sufficient for at least 750 counts (10 µl/count) ☐Contains at least 0.4% in 0.81% sodium chloride and 0.06% potassium phosphate dibasic solution ☐Bottle of 100mL, sterile filtered"
76	Cell Culture Dissociation Reagents
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Suitable for all types of adherent cell lines ☐EDTA chelators, free of animal-derived components ☐No inhibitors needed to deactivate activity ☐Liquid form ☐Tested for In vitro bioassay ☐No phenol red ☐Bottle of 500mL

77	Centrifuge (Conical) Tubes, 15mL Capacity	
	<ul style="list-style-type: none"> ☐With graduations and marking spot. ☐Screwcap (plugseal) ☐Sterile. RNase-/DNase-free. ☐Non-pyrogenic ☐Polyethylene terephthalate (PET) material ☐At least 3600 centrifugal force (x g) ☐Pack of 50 Tubes 	
78	Centrifuge (Conical) Tubes, 50mL Capacity	
	<ul style="list-style-type: none"> ☐With graduations and marking spot. ☐Screwcap (plugseal) ☐Sterile. RNase-/DNase-free. ☐Non-pyrogenic ☐Polyethylene terephthalate (PET) material ☐At least 3600 centrifugal force (x g) ☐Pack of 25 Tubes 	
79	Cesium Fluoride	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
80	Chemiluminescence reagent	
	<ul style="list-style-type: none"> ☐Detection level: Low-picogram to high-femtogram ☐HRP (Horseradish Peroxidase) Substrate; 2°: 1:20-100K (10-50ng/mL), 1°: 1:1K (0.2- 1µg/mL) ☐Pack of 20mL 	
81	Cloth bag, pouch type	
	☐9x7 inch, preferably cream color	
82	Cobalt Chloride	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
83	Cryogenic tube with screw and cap	
	☐volume 5 mL, with external thread, self-standing, RNase and DNase free, sterile, 1000 EA per pack	
84	Culture Tube, 70 mL capacity	
	<ul style="list-style-type: none"> ☐Rimless ☐Borosilicate glass ☐25x200mm ☐Round-bottom, 50pcs/box 	
85	DAPI Fluorescent Stain	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Mammalian cell culture suitable ☐Cell-Impermeant ☐Sub Cellular Localization: Nucleus ☐Excitation/Emission: 360/460 ☐Pack of 6 bottles x 2.5mL per bottle 	
86	Dessicator, Glass	
	☐Dessicator, Glass, 300mm (12")	
87	Dextrose, Powder, AR, 250g/btl	
88	Dial Caliper	

	<ul style="list-style-type: none"> ■Dial face scales in Decimal Inch (black) and Metric (red). ■Hardened stainless steel throughout. ■Inside, outside, step and depth measurement. ■Raised sliding surface prevents wear and defacement of graduations. ■Covered, stainless steel rack. ■Ranges available: 6"/ 150mm, 8"/200mm, 12"/300mm ■Graduation: .001"/.02mm ■Shock Proof: Shock-Proof offers increased accuracy over standard gear configurations. It is equipped with a dual heavy duty springs to control anti-backlash. Backlash is the amount of clearance between mated gear teeth in the caliper controls that prevents the gear teeth from jamming. The shock proof mechanism will keep our caliper for years of continuous use 	
89	Digital thermometer with thermocouple	
	■Thermometer Advanced (Highly accurate thermometer (+/- 0.3% rdg. +1 C) accepts any type K or J thermocouple probes.	
90	Digital Thermostatic Water Bath	
	■Digital Thermostatic Water Bath with 1 Chamber, 3L Capacity, RT to 100°C, 300W Heating Power, 0.1°C	
91	Digital Ultrasonic Bath	
	<ul style="list-style-type: none"> ■3L, Inner tank size: 240*140*100mm ■Product size: 265*160*225mm, Heating ■Temperature: 20~80, Packing size: 340*245*300mm 	
92	Digital Weighing Scale, 50kg	
	<ul style="list-style-type: none"> ■1g accuracy ■maximum of 50 kg ■materials: metal 	
93	Dimethyl sulfoxide (DMSO), MBG	
	<ul style="list-style-type: none"> ■Molecular Biology Grade (MBG) DMSO ■Suitable for Molecular Applications ■Nuclease-Free DMSO ■DNase-Free, RNase-Free, Protease-Free, Phosphatase-Free ■Bottle of at least 500mL 	
94	Dimethyl sulfoxide, Analytical reagent	
95	Disodium Hydrogen Phosphate Heptahydrate, AR, 500g/btl	
96	Dissecting Kit	
	■Dissecting kit (scalpel, scissors, large forceps, fine forceps, magnifying glass, and pins)	
97	Dry Heat Sterilizer, 28L	
	■Product size: 265*160*225mm, Heating temperature: 20~80, Packing size: 340*245*300mm	
98	Erlenmeyer Flask, Glass, 1L	
99	Erlenmeyer Flask, Glass, 250mL	
	<ul style="list-style-type: none"> ■Material: Borosilicate Glass ■Good Quality 	
100	Erlenmeyer Flask, Glass, 500mL	
	■500ml capacity, borosilicate glass	
101	Ethanol	
	■95% solution, 1 gallon	
102	Ethanol	

	☐AR, at least 95%v/v, 4L
103	Ethanol
	☐Analytical Reagent Grade, Absolute, 2.5L per bottle
104	Ethyl Acetate
	☐Analytical Reagent Grade, 2.5L per bottle
105	Ethyl Acetate
	☐Analytical Reagent Grade, 2.5L per bottle
106	Ferrous Sulphate
	☐Analytical Grade ☐500 G bottle
107	Fetal/Foetal Bovine Serum (FBS)
	☐Cell culture: mammalian cell culture suitable ☐Certified Purity or Quality Grade ☐Heat inactivated ☐Endotoxin Level: ≤ 5 EU/mL ☐Hemoglobin level: ≤ 15 mg/dL ☐100 mL per bottle ☐Species: Cattle/Bovine
108	Filter Paper
	☐Filter Paper No.1 ☐Qualitative Circles 125mm (12.5cm) ☐Qty/box: 100 pieces per box ☐Porosity: Medium ☐Flow Rate: Medium
109	Filter Paper, 12.5 cm. Ashless 2.5um pore size
110	Firing Cotton
	☐Part No: 3K-FC ☐Quantity: 1 Packet of 200 threads (Per Kit), 1 Packet of 1000 threads (10 per bundle) (Sold Separately) ☐Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel ☐Application: Used to ignite the sample in the CAL3K Vessel.
111	Firing Wire
	☐Part No: 3K-4-FW ☐Quantity: 1 Packet of 5 wires (Per Kit & Sold Separately) ☐Compatibility: Automatic Bayonet Vessel / Manual Bayonet Vessel ☐Application: Used to ignite the sample in the CAL3K Vessel.
112	Funnel, Glass, 50mm
113	Glacial Acetic Acid
	☐Analytical Reagent grade 2.5L per bottle
114	Glass Buret
	☐50 mL capacity, with glass stopcock
115	Glass Slides
	☐Glass Slide ☐72 pcs/box ☐Clear Glass 25.4x76.2mm (1"x3"), 1.2mm Thick
116	Gloves, Nitrile, Medium

	<ul style="list-style-type: none"> ☐Glove Type: Chemical Resistant Disposable Gloves ☐Glove Material: Nitrile ☐Powder-Free ☐1 box of 100 or 50 pairs ☐Food Safe ☐Size: Medium 	
117	Gloves, Nitrile, Small	
	<ul style="list-style-type: none"> ☐box or 100-50 pairs, small ☐natural rubber latex-free, powderless ☐micro grip 	
118	Glycerol	
	<ul style="list-style-type: none"> ☐Molecular biology grade, ≥99.0% assay quality ☐Suitable for cell culture, insect cell culture, and electrophoresis ☐Dnase-free, Rnase-free, NICKase-free, and protease-free ☐Liquid form ☐Bottle of 500mL 	
119	Glycerol-based liquid fluorescent mounting medium	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For cellular fluorescent imaging ☐Applied directly to fluorescently labeled cells or tissue samples on microscope slides ☐Pack of at least 5 vials with 2mL per vials 	
120	Glycine	
	<ul style="list-style-type: none"> ☐Molecular biology, ≥99.0% assay quality ☐Suitable for protein analysis, SDS-PAGE and Western blot ☐DNases and Rnases free ☐Phosphatases and proteases free ☐Crystalline form ☐Bottle of at least 500g 	
121	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 488-conjugated	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐Reactive to Mouse ☐Alexa Fluor® 488 conjugate ☐Liquid form ☐Concentration is 2 mg/mL ☐Vial of at least 1mg 	
122	Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 647-conjugated	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐Reactive to Mouse ☐Alexa Fluor® 647 conjugate ☐Liquid form ☐Concentration is 2 mg/mL ☐Vial of at least 1mg 	
123	Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP-conjugated	

	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Host/Isotype: Goat / IgG ☐Concentration: 1.5mg/mL ☐Vial of at least 2mL 	
124	Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP-conjugated	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Host/Isotype: Goat / IgG ☐Concentration: 1mg/mL ☐Vial of at least 0.2mL 	
125	Grade 1 Qualitative Filter Paper, Diameter: 12.5cm, Pore Size: 11µm	
126	Graduated Cylinder, Glass, 1000mL (2L)	
	☐Material: Borosilicate Glass☐Good Quality	
127	Graduated Cylinder, Glass, 100mL	
	☐100mL capacityType 1, Class A Borosilicate Glass	
128	Graduated Cylinder, Glass, 250mL	
	☐Material: Borosilicate Glass☐Good Quality	
129	Graduated Pitcher	
130	Green 0.1 um Fluorescent Polystyrene microspheres	
	☐Green 0.1 um Fluorescent Polystyrene microspheres (1 ml)/	
131	HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) buffer solution	
	<ul style="list-style-type: none"> ☐For use with mammalian cell and tissue extracts ☐For molecular biology, analytical grade ☐Liquid form ☐1M concentration ☐Sterile filtered ☐Bottle of 100mL 	
132	Hexane 2.5L	
	☐Analytical Reagent Grade 2.5L per bottle	
133	High Precision Magnetic Pocket Transit Geological Compass Scale	
	<ul style="list-style-type: none"> ☐0-360 degrees ☐good finish, clear printing. ☐Small and exquisite, lightweight and easy to carry ☐The magnetic pointer is strong and the scale is accurate ☐Material: Plastic ☐Color: preferably green ☐Size: (L x W x H) 8.3*7*3.1cm / 3.27*2.76*1.22inch ☐Needle-lock to protect the compass assembly during transit and gear driven adjustable declination to allow for simple compensated bearings. ☐Features include a compass bubble level, clinometer level, sighting mirror with lubber line and sighting hole, induction dampened needle, and adjustable sighting points. 	
134	High Precision Stainless Steel Digital Vernier Caliper	
	☐6 inches; 0.01-0.025 mm accuracy	

135	Hydrophilic Membrane Filter
	<ul style="list-style-type: none"> ☐Pore size: 0.22 μm (micron) ☐material: PTFE ☐size range: 13 - 25 mm diameter ☐HPLC certified - for low levels of UV-absorbing extractables
136	In Situ Cell Death Detection Kit, Fluorescein
	<ul style="list-style-type: none"> ☐Suitable for mammalian cell culture ☐Molecular biology grade ☐For the detection and quantification of apoptosis at the single-cell level, based on labeling of DNA strand breaks; analysis by fluorescence microscopy or flow cytometry ☐Sufficient for at least 50 tests ☐Kit of at least 50 tests/assays
137	Induction Motor
	☐Voltages - 220 to 240v, 60hz, .37kw, 0.5HP
138	Inoculating Loop Stainless Steel
	☐10pcs/pack 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
139	Insulin, human recombinant
	<ul style="list-style-type: none"> ☐cell culture mammalian: suitable ☐sterile filtered of at least 0.2 μm ☐\geq27.5 units/mg potency ☐dry powder, 100mg
140	Lab Centrifuge, 4000rpm
	☐80-2 Lab Centrifuge, 4000rpm
141	Lab Gown Long Sleeves L
	☐Lab Coat High-quality White☐Size- Large; long sleeves
142	Lab Gown Long Sleeves M
	<ul style="list-style-type: none"> ☐Lab Coat High-quality White ☐Long Sleeves ☐Medium size
143	Laboratory film
	☐4 in. x 125 feet/roll, flexible, self-sealing, odorless, moisture-resistant, thermoplastic semi-transparent and practically colorless
144	Laboratory Hot Plate Magnetic Stirrer, 1L, 0-1600 RPM
	<ul style="list-style-type: none"> ☐Lab hotplate magnetic stirrer, capable of heating and mixing liquid at the same time. ☐The hot plate stirrer comes with 12*12cm aluminum plate, max. stirring capacity up to 1L, adjustable temperature 380 °C and variable speed 0-1600 rpm with two separate knob, convenient use, fast heating and high durability.
145	Laboratory Weighing Boats, 500pcs/pack
	☐ 3.5 x 7.25 x 3.2"; 2.49lbs, 100ml
146	Labware Detergent or Laboratory Dishwashing Liquid
	<ul style="list-style-type: none"> ☐Suitable for manual, ultrasonic, and machine washing ☐Completely biodegradable ☐Free of phosphate, chlorine, enzyme, and EDTA ☐Contains anionic and cationic surfactants ☐5 liters per bottle
147	Latex Disposable Gloves Powder Free (Medium)
148	LB Broth

149	Lemongrass Essential Oil
	☐Lemongrass Oil (<i>Cymbopogon citratus</i> , 30 ml)
150	Lemongrass essential Oil, 15mL
	☐Lemongrass Oil (<i>Cymbopogon flexuosus</i> , 15 ml)
151	Lens Tissues, 25 Sheets per Booklet, 5 Booklets
152	Lithium Bromide
	☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
153	Lithium Chloride
	☐Anhydrous ☐Lab grade/Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
154	Lithium Iodide
	☐Anhydrous ☐Lab grade/Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
155	Low Autofluorescence Immersion Oil, n = 1.518, Type F, 30 mL
156	Magnesium chloride, MgCl₂
	☐1kg per bottle ☐colorless crystalline solid ☐Properties: ◀Quality Level: 300 ◀Grade: anhydrous ◀Assay: ≥98% ◀Form: powder ◀Impurities: ≤0.5% Insolubles ◀bp: 1412 °C/1 atm (lit.) ◀mp: 714 °C (lit.) ◀Density: 2.32 g/mL at 25 °C (lit.)
157	Magnesium Nitrate
	☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles
158	Malt Yeast Extract Agar
	☐Applications: Yeasts and molds selective enumeration, yeasts and molds selective isolation ☐pH: 4.7±0.2 at 25°C ☐solubility: without rests ☐Appearance: fine powder ☐100 grams
159	Manganese Sulphate
	☐Analytical Grade ☐500 G bottle
160	Methanol 2.5L
	☐Analytical Reagent Grade 2.5L per bottle
161	Methanol or Methyl alcohol
	☐HPLC Grade 2.5L per bottle

162	Micro pipette, with stand, P10 (0.5-10ul)
163	Micro pipette, with stand, P100 (10-100ul)
164	Micro pipette, with stand, P1000 (200-1000ul)
165	Microcentrifuge Tube, 0.5mL, Attached Snap Cap, Clear/ Natural
166	Microcentrifuge Tube, 1.5mL, Attached Snap Cap, Clear/ Natural
167	Microcentrifuge Tubes (1.5mL Capacity)
	<ul style="list-style-type: none"> ☐1.5mL Capacity ☐clear ☐safe-lock ☐pack of 1000 ☐autoclavable
168	Microcentrifuge Tubes (2.0mL Capacity)
	<ul style="list-style-type: none"> ☐2.0mL Capacity ☐clear ☐safe-lock ☐pack of 1000 ☐autoclavable
169	Micropipette Tip, 10 uL
	<ul style="list-style-type: none"> ☐10 uL-capacity ☐Standard tip, graduated ☐Autoclavable ☐Pack of 1000 tips
170	Microscope Eyepiece Reticle or Ocular Micrometer
	☐Diameter, 24mm, 0.01 mm Division and Stage Micrometer set for calibration with 0.01 mm division
171	Microscope Slides and cover slips
	☐Pre-Cleaned Blank slides with 100 22 x 22 mm square Cover Slip
172	Microtube Storage Racks
	<ul style="list-style-type: none"> ☐48 Place microtube and cryo-vial storage system ☐Clear lid ☐Fully autoclavable (122oC) and freezable (-190oC) ☐Holds 1.5, 1.7, 2.0 ml microtubes ☐Stackable ☐can incorporate ice with frozen samples on bench
173	Mini Dry Bath
	240V, 100°C, Digital, 4 x 6 x 4.5"
174	Mortar and Pestle (small)
175	MTT (3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolium Bromide)
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐For assessing cell viability as a function of redox potential ☐Solid form ☐Vial of at least 1g
176	N95 Particulate Filter Respirator and Surgical Mask
	<ul style="list-style-type: none"> ☐NIOSH and FDA approved ☐Filters 99% of particles down to 0.1 microns ☐50pcs/box ☐Free-size
177	N-octanol

	<ul style="list-style-type: none"> ☐ Technical grade ☐ Purity: 99% ☐ 5 liters 	
178	Nutrient Agar, 500g	
179	Oil Red O, Biological Stain	
	<ul style="list-style-type: none"> ☐ Cell culture: mammalian suitable ☐ analytical grade ☐ powder; 100 g per bottle ☐ staining and visualizing general localization of fats 	
180	Open Reel Measuring Tape	
	<ul style="list-style-type: none"> ☐ Fiberglass ☐ Stainless steel frame ☐ Specification: 30M/50M/100M (98ft/164ft/328ft) ☐ Material: Stainless steel ☐ ABS Unit: Metric/Imperial ☐ Dimension: 30M: approx. 25x17x2cm 50M: approx. 31x18x2.5cm 100M: approx. 31x18x2.5cm ☐ Rugged, Impact-resistant ☐ Plating ruler tape/nylon ruler tape, with good clarity and wear-resistant. ☐ Features Cone Tip Stake for Accurate Measurements and Stability. ☐ Comes with a convenient carry handle. ☐ Easy to read Metric and Imperial graduation 	
181	Ordinary Vernier Caliper	
	<ul style="list-style-type: none"> ☐ Plastic material ☐ Up to 150mm measuring range ☐ accuracy atleast 1mm ☐ double scale measurement ☐ no battery ☐ Ultra precision and effortless operation. 	
182	Paraformaldehyde	
	<ul style="list-style-type: none"> ☐ Reagent or analytical grade ☐ For use in the preparation of formalin fixatives for tissues or cells when the samples are to be used in fluorescence studies ☐ Crystalline form ☐ Bottle of 25g 	
183	Peptone	
	☐ 500g for bacteriological work	
184	Perilipin 1 Polyclonal Antibody, unconjugated	
	<ul style="list-style-type: none"> ☐ Molecular Biology grade ☐ Suitable for mammalian cell culture ☐ For Western Blot, IF, ICC, IHC ☐ Host/Isotype: Rabbit / IgG ☐ Reactive to mouse, rat ☐ Concentration: 1 mg/mL ☐ Vial of at least 100uL 	
185	Petri dish	

	<ul style="list-style-type: none"> comprise a lid and base high clarity glass borosilicate glass size: <ul style="list-style-type: none"> Cover int. dia mm : 95 Base ext. dia mm: 94 Size: 100 x 20 	
186	Petroleum Ether, AR	
187	pH Meter pen type	
	<ul style="list-style-type: none"> 0.1 pH resolution water-resistant/proof 	
188	Phenolphthalein Indicator Powder	
	<ul style="list-style-type: none"> AR grade, 125 grams 	
189	PI-3 Kinase p110α antibody, unconjugated	
	<ul style="list-style-type: none"> Molecular Biology grade Suitable for mammalian cell culture For Western Blot, IF, ICC, IHC Reactive to Human, Mouse, Rat Host/Isotype: Rabbit / IgG Vial of at least 100uL 	
190	Picric Acid, 1Li./Bottle	
	<ul style="list-style-type: none"> Saturated, Aqueous solution Physical form: Liquid Color: Yellow Concentration or Composition Notes: <ul style="list-style-type: none"> Approximately 1.2% (w/v) Molecular Weight (g/mol): 229.104 	
191	Pikovskaya Agar, Powder, 500g/btl	
	<ul style="list-style-type: none"> suitable for microbiological studies 	
192	Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound)	
	<ul style="list-style-type: none"> NT-STD Pipette Carousel Stand (17.32 x 10.24 x 4.33 inches; 1 Pound) 	
193	Pipette Tips (20 ul)	
	<ul style="list-style-type: none"> 20 ul capacity autoclavable 100 pcs per pack 	
194	Plastic cup with cover	
	<ul style="list-style-type: none"> 30 ml capacity same size as fast food gravy container round shape transparent at least 60pcs cup in one pack 	
195	Portable pH Meter with Temperature probe	
196	Potassium Acetate	
	<ul style="list-style-type: none"> Anhydrous Lab grade/ Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 	
197	Potassium Bromide	
	<ul style="list-style-type: none"> Anhydrous Lab grade/ Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 	

198	Potassium Carbonate	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
199	Potassium Chloride	
	<ul style="list-style-type: none"> ☐Chemical must be plant tissue culture tested for at least 20 years ☐ISO complaint ☐ACS REAG ☐PH EUR ☐meets USP Standards ☐Bioreagent suitable for cell culture 	
200	Potassium chloride (KCl) solution	
	<ul style="list-style-type: none"> ☐Molecular biology grade, Rnase-free ☐For use with mammalian cell and tissue extracts ☐Liquid form ☐2M concentration ☐Bottle of 100mL 	
201	Potassium Chloride, AR, 1000g	
202	Potassium Chromate	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
203	Potassium dihydrogen phosphate, AR, 500g	
204	Potassium Flouride	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
205	Potassium Hydroxide	
	<ul style="list-style-type: none"> ☐CAS 1310-58-3 ☐Flakes ☐Analytical Grade ☐1kg 	
206	Potassium iodide, KI	
	☐Analytical reagent grade, powder, 500g/bottle	
207	Potassium Nitrate	
	<ul style="list-style-type: none"> ☐AR grade ☐Formula: KNO₃ ☐Molar wt: 101.1032 g/mo ☐1kg/pack 	
208	Potassium sulfate, K₂SO₄	
	☐Analytical Reagent Grade 2.5L per bottle	
209	Potato Dextrose Agar (PDA), 500 grams	
210	Potato Starch	
	<ul style="list-style-type: none"> ☐Analytical Grade ☐500 G bottle 	
211	Potentiometer	

	<ul style="list-style-type: none"> ☐Quantity: 25pcs ☐Model: 3296W 202 2K Ohm ☐Turns: 25 turns ☐Power: 0.5W,1/2W ☐Resistive Material: Cermet ☐Resistance Tolerance: $\pm 10\%$ ☐Mounting Type: Through Hole ☐Resistance Change Type: Linear ☐Adjustment Type: Top Adjustment ☐Storage temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ☐Temperature Coefficient: $\pm 100\text{ppm}/^{\circ}\text{C}$ ☐Square Body Size: 9.5x4.8x10mm/0.37"x0.19"x0.39"(L*W*H) 	
212	PPARγ polyclonal antibody, unconjugated	
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Vial of 100uL 	
213	Propidium iodide - Fluorescent Stains	
	<ul style="list-style-type: none"> ☐Suitable for mammalian cell culture ☐For molecular biology, analytical grade ☐Vial of 100mg per vial 	
214	Protease Inhibitor, Complete	
	<ul style="list-style-type: none"> ☐For use with mammalian cell and tissue extracts ☐For molecular biology, analytical grade ☐Inhibits serine, cysteine, and acid proteases, and aminopeptidases ☐Contains AEBSF, Aprotinin, Bestatin, E-64, EDTA, Leupeptin ☐Bottle for 10mL cocktail 	
215	Protein A Agarose	
	<ul style="list-style-type: none"> ☐Molecular biology grade ☐Suitable for purifying IgG molecules ☐Affinity column type ☐Supplied as a suspension ☐Bottle of at least 5mL 	
216	Protein Standard/Ladder, Pre-stained	
	<ul style="list-style-type: none"> ☐Molecular biology ☐Suitable for protein analysis, SDS-PAGE and Western blot ☐At least 12 marker ladder, ready-to-use ☐3.5 to 260 kDa size range ☐Pack of at least 2 vials x 250uL per vial 	
217	PVDF membrane for Western blotting, 8.6 x 13.5 cm	
	<ul style="list-style-type: none"> ☐PVDF-Filter paper sandwich ☐Detection methods: Chemiluminescence, Colorimetric ☐Pore Size: 0.45μm ☐Target protein >20 kDa ☐Dimension: at least 8.6 x 13.5 cm ☐Pack of at least 16 membranes"" ☐Pre-assembled blotting membrane & filter paper 	
218	PVDF Syringe Filters, Size: 0.2 μm/ at least 17mm	

	<ul style="list-style-type: none"> For general biological filtration and of samples where high protein recovery is desired Size: 0.2 μm/ at least 17mm Sterile or autoclavable Pack of 1000 	
219	PVDF Syringe Filters, Size: 0.45 μm/ at least 17mm	
	<ul style="list-style-type: none"> For general biological filtration and of samples where high protein recovery is desired Size: 0.45 μm/ at least 17mm Sterile or autoclavable Pack of 1000 	
220	Reagent Bottle 250mL	
	Amber colored bottle with HDPE blue screw cap, 250mL	
221	Reagent Bottle 500mL	
	Amber colored bottle with HDPE orange screw cap, 500mL	
222	Reagent Bottle	
	<ul style="list-style-type: none"> With Stopper/Screw Cap Material: Glass/Borosilicate Glass Color: Clear/Transparent Flask Capacity: 2000mL Graduation: 1800mL 	
223	Reagent Grade NaOH Pellets, 500g	
	AR grade, pellets, 500 grams	
224	Resealable Plastic Bag, Large	
	resealable plastic bag, zip lock, 340 mm x 450 mm (13" x 18"), 100 pcs per pack	
225	Resealable Plastic Bag, Medium	
	resealable plastic bag, zip lock, 140 mm x 200 mm (5 1/2" x 7 1/2"), 100 pcs per pack	
226	Resealable Plastic Bag, Small	
	resealable plastic bag, zip lock, 120 mm x 170 mm (4 1/2" x 7"), 100 pcs per pack	
227	RNA isolation Reagent	
	<ul style="list-style-type: none"> Molecular biology grade Suitable for biological isolation from the cultured cell, animal and plant tissue, yeast, virus, and bacteria Convenient isolation of RNA, DNA, and protein from the same sample source Bottle of at least 200mL 	
228	Scalpel Blade	
	Stainless steel 100 blades/box	
229	Scalpel Handle	
	#4, Stainless steel	
230	Sieve no.10 with cover and pan	
	<ul style="list-style-type: none"> Sieve No. 10 (8" Sieve, All Brass, Full Height, No. 10 Mesh); Eye opening: 2000 μm (0.0787in) Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height) Sieve Cover (8" Brass Sieve Cover Lid) 	
231	Sieve no.50 with cover and pan	
	<ul style="list-style-type: none"> Sieve No. 50 (8" Sieve, All Brass, Full Height, No. 50 Mesh); Eye opening: 300 μm (0.0118in) Sieve Pan (8" Brass Sieve Pan, 2" Deep, Full Height) Sieve Cover (8" Brass Sieve Cover Lid) 	

232	Silver	
	<ul style="list-style-type: none"> ☐5 G/bottle ☐form: nanopowder (particle size: >100 nm) ☐99.5 trace metal basis 	
233	Silver Nitrate, AgNO₃	
	☐Analytical reagent grade, 100g/bottle	
234	Skim Milk	
	<ul style="list-style-type: none"> ☐Powder form ☐500 G ☐Suitable for microbiology 	
235	Sodium Bromide, NaBr	
	<ul style="list-style-type: none"> ☐at least 250g/bottle, AR Chemical property- Sodium bromide is a colorless cubic crystal or white granular powder. It is odorless, and has slightly bitter and briny taste but high toxicity. It is easily soluble in water (at 100 °C, the solubility in 100ml water solubility is 121g), but slightly soluble in alcohol. ☐Specifications: <ul style="list-style-type: none"> ◀Appearance: White, Crystalline Solid ◀Assay: ≥99% ◀Chloride: ≤1.0% ◀Loss on Drying: ≤0.5% ◀Sulfate: ≤0.05% ◀pH value: 6.5~8.5 (5% @ 72 °F) 	
236	Sodium Chloride	
	☐Analytical reagent grade, 500g/bottle	
237	Sodium dodecyl sulfate (SDS)	
	<ul style="list-style-type: none"> ☐Molecular biology grade, at least ≥99.0% assay quality ☐Suitable for protein analysis and electrophoresis ☐Dnase-free and Rnase-free ☐Phosphatase-free and proteases-free ☐Bottle of at least 500g 	
238	Sodium Hydroxide, AR 500G	
	☐500 g/bottle, AR, Pellets	
239	Sodium Hydroxide, Technical Grade, 1KG, Pellets	
	☐Technical grade, pellets, 1 kg	
240	Sodium Iodide	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
241	Sodium Nitrate	
	<ul style="list-style-type: none"> ☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottles 	
242	Stage Micrometer (1 mm ruled with 0.01 mm division, glass slide)	
	☐Stage Micrometer, 1mm ruled w/ 0.01mm Div (Glass slide)	
243	Stainless Steel Crucible Tongs	
	<ul style="list-style-type: none"> ☐25 cm ☐Stainless Steel 	
244	Stainless Steel Laboratory Microspatula	

245	Stainless Steel Mesh Sieve, #5
	☐#5, 5 mm, 5.04 x 4.84 x 2.17 inches; 4.59 Ounces with cover
246	Standard Berlese Funnel (Tullgren Funnel)
	☐Contents: * Funnel * Mesh tray * Mesh lid * 50ml collecting tube * Aluminum housing ☐Specifications: * Housing: Length 365mm x Width 365mm x Height 520mm * Funnel: Diameter 340mm x Height 350mm * Mesh tray: Diameter 300mm * Mesh lid: Diameter 335mm * Weight (including frame): 1.55kg
247	Standard Buffer solution
	☐pH 4, 1000 ml; calibration certificate included
248	Standard Method Agar (PCA)
	☐Plate count Agar, 500g
249	Standard Size Marble Base Titration Stand
	☐Marble base with iron/aluminum stand for buret
250	Sterile Syringe Filters Nylon 25 mm Diameter 0.45 um Pore Size Individually Packaged 10/pk
251	Stirring Rod
	☐Standard Size ☐Good Quality ☐with rubber policeman
252	Strontium Chloride, 500g
	☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottle
253	Strontium Nitrate
	☐Anhydrous ☐Lab grade/ Analytical reagent grade ☐Expiration date(3 years from the delivery date) ☐Packed in Teflon bottle
254	Sucrose
	☐Analytical Reagent Grade 500g/bottle
255	Sulfuric acid, H₂SO₄
	☐Concentrated, analytical reagent grade, at least 1.84 sp. gr., 2.5L/bottle
256	Temperature-Humidity Data Logger

	<ul style="list-style-type: none"> ☐ Portable and hand-held ☐ 16000 data recording capacity. ☐ Adjustable record interval: 10s~24hour ☐ Multi-function LCD ☐ Internal NTC temperature thermal sensor with optional external sensor ☐ Data export in PDF/EXCEL via data management software ☐ Selectable °F/°C temperature unit ☐ Size: approx. 84 (L) x 44(W) x 20 (H) mm ☐ Good quality ☐ Durable 	
257	Test Tube (Medium), Glass, 15 x 125mm	
258	Test Tube (Small), Glass, 12 x 75mm	
	☐ 12x75 mm glass (borosilicate)	
259	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	
	☐ Stainless steel	
260	Test Tube Rack, 13mm, 90 placer	
	☐ Propylene, 13mm diameter hole, 90 placer	
261	Test Tube Rack, 20 mm x 24 tubes	
	☐ Stainless Steel, 20 mm diameter holes, capacity 24 test tubes	
262	Test Tube Racks, 12MM x 12Holes	
	☐ Stainless Steel Holes Test Tube Rack	
263	Test Tube, Borosilicate Glass, Rimless, 20 x 150 mm	
264	Test Tube, Glass, Graduated, 50mL	
	☐ with Screw Cap	
265	Test tube/ Bottle Cleaning Brush	
266	Toluene	
	(CAS 108-88-3) ☐ 2.5 liters, ☐ Analytical Grade ☐ 99.5%,	
267	Triglyceride Assay Kit (luminescence detection method)	
	<ul style="list-style-type: none"> ☐ Molecular biology grade ☐ Works with lysed cells, tissues, medium and serum samples ☐ No organic extraction, extreme heat, or centrifugation required ☐ Linear triglyceride detection up to 80µM ☐ For bioluminescent assay ☐ Pack of at least 10mL total volume assay kit 	
268	Triton X-100	
	<ul style="list-style-type: none"> ☐ Molecular biology grade ☐ For biochemical applications to solubilize proteins ☐ Liquid form ☐ Bottle of 10mL per bottle 	
269	Trizma base	
	<ul style="list-style-type: none"> ☐ Molecular biology grade, at least ≥99.8% assay quality ☐ Suitable for cell culture ☐ Dnase-free and Rnase-free ☐ Phosphatase-free and proteases-free ☐ Crystalline form ☐ Bottle of at least 1Kg 	
270	Vernier Caliper	

	<ul style="list-style-type: none"> Measurement Range:0-200mm Material:Stainless Steel Accuracy:0.01mm Caliper Type:Digital Calipers 	
271	Volumetric Flask 100ml	
	<ul style="list-style-type: none"> 100 mL (± 0.01 mL) Borosilicate glass with glass standard taper stopper, Class A Calibrated 	
272	Volumetric Flask 25mL	
	<ul style="list-style-type: none"> clear borosilicate glass with ground glass stopper, 25mL, Class A 	
273	Volumetric Flask 50ml	
	<ul style="list-style-type: none"> 50mL, (± 1 mL) Borosilicate glass with glass standard taper stopper, Class A Calibrated 	
274	Vortex Mixer, 220V, 2800RPM	
	<ul style="list-style-type: none"> 2,800 turn, bowl type; Working mode: point vibration, continuous, 30w, 150 x 105 x 115mm 	
275	Wash Bottle, 250mL cap.	
	<ul style="list-style-type: none"> Material: Plastic (good quality) 	
276	Watch Glass	
	<ul style="list-style-type: none"> Material: Glass/Borosilicate Glass Autoclavable: Yes Outer diameter: 75 mm (7.5cm), fits 250 mL beakers, 12pcs/pack, good quality 	
277	Weighing Scale, Hanging, Analog	
	<ul style="list-style-type: none"> Readability: 0.1g to 0.0000001g Accuracy: $\pm 1\%$ Weight capacity: 0g up to 3000g 	
278	Woven Filters, Nylon Mesh, 10pcs/pack	
	<ul style="list-style-type: none"> Mesh Opening: 5 μm Water affinity: hydrophilic High Strength and Adsorption 30 X 30 cm sheet Thickness: 100 μm 	
279	Yeast Extract, Powder, 250g/btl	
	<ul style="list-style-type: none"> Microbiology and molecular biology grade Nonselective for coliforms 	
280	Zinc Bromide	
	<ul style="list-style-type: none"> Anhydrous Lab grade/Analytical reagent grade Expiration date(3 years from the delivery date) Packed in Teflon bottles 	
281	β-actin polyclonal antibody, unconjugated	

	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Concentration: 1 mg/mL ☐Host/Isotype: Rabbit / IgG ☐Vial of at least 100ug"
282	β-catenin polyclonal antibody, unconjugated
	<ul style="list-style-type: none"> ☐Molecular Biology grade ☐Suitable for mammalian cell culture ☐For Western Blot, IF, ICC, IHC ☐Reactive to Human, Mouse, Rat ☐Host/Isotype: Rabbit / IgG ☐Vial of at least 500uL
	Rebidding (GOODS-21-25)
283	Temperature Data Logger
	☐High accuracy temperature logger
	☐Logger can be connected to the PC
	☐via USB for data import and export to excel or pdf.
	☐Temperature & Humidity Monitoring
	☐Measures material moisture
284	Contact cleaner
	☐Anti-rust
	☐Wet-type Lubricant
	☐Spray-type
	☐Penetrating-type
	☐360ml/can
285	Polyethylene Glycol (PEG) 6000,
	☐250g per bottle
286	Burette Brush
	☐big size for 50 mL burette
287	Filter Paper, 12.5 cm. Ashless #42, 100pcs. per box
288	1 kb Plus DNA Ladder
	☐1ml per bottle
289	Agarose LE
	☐100g per bottle
290	Custom oligo primers
	☐HPLC-CE purified
291	Delicate Task Wipes
	☐4.4 x 8.4 inches (11 x 21 cm)
	☐280 sheets/box
	☐lint-free
292	PCR loading dye
	☐10x, 1 ampule
293	LB Broth
	☐100g/bottle
294	Gloves, Nitrile, Large
	☐Glove Type: Chemical Resistant Disposable Gloves
	☐Glove Material: Nitrile
	☐Powder-Free
	☐1 box of 100 or 50 pairs
	☐Food Safe

	☐Size: large
295	Gloves, Nitrile, Medium
	☐Glove Type: Chemical Resistant Disposable Gloves
	☐Glove Material: Nitrile
	☐Powder-Free
	☐1 box of 100 or 50 pairs
	☐Food Safe
	☐Size: Medium
296	Brush Suitable for 10mL Graduated Cylinder
	☐Bristle Material: Black Nylon
	☐Suitable for 10mL Graduated Cylinder
297	Brush Suitable for 50mL Graduated Cylinders
	☐Bristle Material: Black Nylon
	☐Suitable for 50mL Graduated Cylinder
298	Brush Suitable for 100mL Graduated Cylinders
	☐Bristle Material: Black Nylon
	☐Suitable for 100mL Graduated Cylinder
299	Water Quality Test Meter
	☐2 in 1 kit, with calibration packets and user's manual
	◀1 TDS meter
	◀1 pH meter
	☐Hand-held and portable, pen-sized
	☐Color: yellow (pH) + blue (TDS)
	☐Material: plastic + metal
	☐Size: length at 15-20cm
	☐Accurate reading
	☐Good quality
	☐Durable
300	Temperature-Humidity Data Logger
	☐Portable and hand-held
	☐16000 data recording capacity.
	☐Adjustable record interval: 10s~24hour
	☐Multi-function LCD
	☐Internal NTC temperature thermal sensor with optional external sensor
	☐Data export in PDF/EXCEL via data management software
	☐Selectable °F/°C temperature unit
	☐Size: approx. 84 (L) x 44(W) x 20 (H) mm
	☐Good quality
	☐Durable
301	Dissolved Oxygen Meter
	☐Pen-type, portable, easy to carry and durable
	☐LCD display for simultaneous display of dissolved oxygen and temperature.
	☐Highly sensitive probe for fast response and accurate measurement
	☐Unit switching function, Celsius and Fahrenheit
	☐Removable probe design, easy to change measurement, equipped with three spare probe covers for intimate protection.
	☐The pen body design is compact, lightweight, easy to carry and easy to measure.
	☐Measurement Range: 0.00-20.00mg/L

	<ul style="list-style-type: none"> Basic Measurement Error: 0.4 mg/L
	<ul style="list-style-type: none"> Dissolved Oxygen Temperature Compensation: 0-40 degrees Celsius
	<ul style="list-style-type: none"> Power Supply: 4 LR44 1.5V button batteries
	<ul style="list-style-type: none"> Color: Blue And Gray
	<ul style="list-style-type: none"> Dissolved Oxygen Meter: at least 140x40x40mm
	<ul style="list-style-type: none"> Pen: at least 160x13x13mm
	<ul style="list-style-type: none"> Lead Length: at least 2930mm
	<ul style="list-style-type: none"> Probe Length: at least 3090mm
	<ul style="list-style-type: none"> Full Length: at least 3230mm
	<ul style="list-style-type: none"> Weight: approximately 253g
	<ul style="list-style-type: none"> Package Included:
	<ul style="list-style-type: none"> 1 x Host
	<ul style="list-style-type: none"> 3 x Probe Covers
	<ul style="list-style-type: none"> 1 x USB Data Cable
	<ul style="list-style-type: none"> 1 x Portable Cloth Bag
	<ul style="list-style-type: none"> 1 x Color Box
	<ul style="list-style-type: none"> 1 x Factory Certificate
	<ul style="list-style-type: none"> 1 x Instruction Manual
	<ul style="list-style-type: none"> 1 x Dissolved Oxygen Filling Solution
	<ul style="list-style-type: none"> 10 x Reagent A
	<ul style="list-style-type: none"> 10 x Reagent B
302	Laboratory Burette Stand
	<ul style="list-style-type: none"> Standard laboratory burette stand
	<ul style="list-style-type: none"> Good quality White PE Burette Stand
	<ul style="list-style-type: none"> Heavy duty white polyethylene burette stand comes with a polyethylene coated metal rod which screws into the base.
	<ul style="list-style-type: none"> Whichever is available, with the hole in the center (center weighted) or at the short edge (edge weighted) as long as the 3 burette stands are the same (ex. if center weighted, then all 3 should be center weighted).
303	Analytical Balance
	<ul style="list-style-type: none"> max capacity 120 g
	<ul style="list-style-type: none"> readability 0.1mg
	<ul style="list-style-type: none"> linearity +/- 0.2 mg
	<ul style="list-style-type: none"> pan size 80 mm dia
	<ul style="list-style-type: none"> Motor-driven built-in calibration weight
	<ul style="list-style-type: none"> PSC: touch-key with built-in or external weight calibration mode
304	Reagent Bottle
	<ul style="list-style-type: none"> With Stopper/Screw Cap
	<ul style="list-style-type: none"> Material: Glass/Borosilicate Glass
	<ul style="list-style-type: none"> Color: Clear/Transparent Flask
	<ul style="list-style-type: none"> Capacity: 2000mL
	<ul style="list-style-type: none"> Graduation: 1800mL
305	Brush for cleaning 250mL Erlenmeyer Flask
	<ul style="list-style-type: none"> Bristle Color: White Bristle
	<ul style="list-style-type: none"> Brush+Handle Length: 12"
	<ul style="list-style-type: none"> Brush Diameter: 1 3/8"
	<ul style="list-style-type: none"> Brush Length: 3 1/2"
	<ul style="list-style-type: none"> Suitable for cleaning 250mL Erlenmeyer Flask
306	Brush Suitable for cleaning 500mL Erlenmeyer Flask
	<ul style="list-style-type: none"> Bristle Color: White Bristle

	☐Brush+Handle Length: 14"
	☐Brush Diameter: 1 1/2"
	☐Brush Length: 4"
	☐Suitable for cleaning 500mL Erlenmeyer Flask
307	Multi-Functional LCD Digital Multimeter Auto Range DMM with Temperature Detector DC AC Voltage
	☐Large LCD display of 41mm character height
	☐Measure DC/AC voltage/current, diode, resistance, capacitance, temperature and continuity test.
	☐Max. display value: 6000.
	☐Can test the temperature with unit of °C/ °F.
	☐Includes relative value testing, duty cycle test, data hold, MAX/MIN value hold and auto power off function.
	☐With overload protection on all ranges.
	☐Low battery indication and warning alarm function.
	☐Equipped with a back bracket for supporting multimeter, and also can collect test probe.
	☐Protected by rubber for drop protection.
	☐Great for troubleshooting automotive and household electrical problems.
308	Activated Acid-washed Charcoal
	☐Chemical must be plant tissue culture tested for at least 20 years
	☐ISO complaint
	☐ACS REAG
	☐PH EUR
	☐meets USP Standards
	☐Bioreagent suitable for cell culture
	☐2.5kg per pack
309	Ethanol
	☐USP 95% (food grade), 2.5 L
310	Naphthaleneacetic Acid, 5g per bottle
	☐Branding the chemical to be purchase is following the protocol set for the project's protocol and standards
	☐Chemical must be plant tissue culture tested for at least 20 years
	☐ISO complaint
	☐ACS REAG
	☐PH EUR
	☐meets USP Standards
	☐Bioreagent suitable for cell culture
311	Phytigel, Sigma
	Branding the chemical to be purchase is following the protocol set for the project's protocol and standards
	☐Chemical must be plant tissue culture tested for at least 20 years
	☐ISO complaint
	☐ACS REAG
	☐PH EUR
	☐meets USP standards
	☐Bio reagents suitable for cell culture
312	Dispensing pump for culture media

	☐Single Pump
	☐Continuous
	☐Multi-dose
	☐(predetermined volume, with a pause between each dose)
	☐Digital control screen
	☐Rotating button for easy navigation and program settings
	☐Compact: only 16 cm wide
	☐Up to 1% precision
	☐Dispenses liquid from 50 μ L to 99 μ L
	☐Step-by-step instructions on screen
	☐Calibration possible with chosen volume
	☐High quality Watson Marlow TM pump heads
	☐Heavy duty polycarbonate top shell and durable stainless steel
313	Distilling Apparatus
	☐Note: Distilling apparatus in cart is beyond the budget allocated.
	☐Housing made of stainless steel
	☐Pilot switch light
	☐with thermostat
	☐Distillation capacity L/H; 4
	☐Water consumption L/Min : 1
	☐Equipment measures HxWX Depth (mm): 435x370x220
	☐Heaters: 3000W
	☐Electricity : 230V-50/60 Hz 13A
	☐Equipment wt: 8
314	Potassium dihydrogen phosphate, AR
315	Triethanolamine, AR
316	Alcohol, Denatured
317	Hydrochloric Acid
	☐AR grade
	☐2.5 liter/btl.
	☐36.5-38%
	☐impurities <1ppm free chlorine
318	Glass Jar 12oz
	☐Clear
	☐12oz
	☐M-7101
	☐with cap
	☐24pcs/box
319	Glass Jar 8oz
	☐Clear
	☐8oz
	☐M-7177
	☐with cap
	☐24pcs/box
320	Myo-inositol
	☐AR, 100g per bottle
321	Agar (E-406)
322	Pronadisa-delete
	☐500g
	☐For plant tissue culture

323	Scalpel Blade
	☐Stainless steel
	☐100 blades/box
324	Volumetric Flask
	☐50mL, (± 1 mL)
	☐Borosilicate glass with glass standard taper stopper
	☐Class A
	☐Calibrated
325	Volumetric Flask 100ml
	☐100 mL (± 0.01 mL)
	☐Borosilicate glass with glass standard taper stopper
	☐Class A
	☐Calibrated
326	96-Well Plates, Polypropylene
	☐96 Well Microplate
	☐well working volume 50-300 μ L
	☐clear polypropylene wells round bottom
	☐maximum volume 355 μ L
	☐DNase/RNase free
	☐Non-pyrogenic by LAL method to <0.06 EU/mL
	☐at least 100 EA per pack
327	Alcohol, Ethyl, 95% (Tech)
328	Tri-power Stereo Microscope
	☐45° advance viewing head which can rotate 360°
	☐locked on 15x wide-field eye piece with diopter adjustment on one ocular tube
	☐magnification of paired objectives: 30x parfocal, 45x parcentered, and 60x achromatic
	☐led lighting
	☐rack and pinion focusing with slip clutch and tension adjustment
	☐adjustable pole mounted cycle
	☐includes a 95mm black and white reversible stage plate
	☐rugged all metal construction
	☐corded
	☐power source: 220-240 V 50/60Hz
	☐with warranty
329	Table Type Vacuum Packaging Machine
	☐voltage: 220V/50-60Hz
	☐power: 0.75W
	☐heat-sealing power: .6 Kw
	☐lowest absolute pressure of vacuum case: 1.33 kpa
	☐volume of vacuum case: 380 x 380 x 80 mm
	☐heat sealing strip length and width: 260 x 8 mm
	☐number of heat sealing strips: 1 or 2 pcs
	☐exhaustment of vacuum pump: 10m3/h
	☐material of vacuum case and null: stainless steel
	☐dimension: 470 x 330 x 300 mm (l x w x h)
	☐weight: 45 kgs
330	Laboratory Refrigerator with 10.6 cubic foot/300 L capacity
	☐Temperature range: +2°C to +8°C
	☐Inner cabinet: white epoxy painted

	☐Inner shelves: epoxy plastic coated steel rod
	☐CFC Free Eco-friendly refrigerant R 134a
	☐CFC Free, environment friendly Cyclopentene foaming PUF insulation
	☐No frost, fan-assisted cooling circulation system
	☐Ultra-fast pull down, auto defrost with self-evaporating drip tray
	☐Rear-to-front hot air anti-condensation
	☐Digital temperature controller
	☐Double glazed glass doors
	☐Full length illumination
	☐Fitted with castors, front two with brakes
	☐Low noise, green technology and energy saving
	☐Self-closing hinge doors
	☐Lock as standard
	☐Input 220/240V, 50 Hz with power cord & plug
	☐Automatic voltage stabilizer with time delay restart
	☐gross volume: ≥ 300 L
331	ELISA READER
	☐(Filter wheel-type) (Bio-rad iMark)
	☐Wavelength range: nm400-750 or wider
	☐Compatible plate/strips: flat, U, or V-bottom microplates or 8- or 12- well strip plates.
	☐Number of filters accommodated: at least 8
	☐includes 415, 450, 490, 595, 655 and 750 nm filters.
332	MICRO CENTRIFUGE , (Ventilated)
	☐Capacity : 24 x1.5/2mL
	☐Max. Speed : 13,300rpm
	☐Max. RCF : 17,000 x g
	☐Noise Level: 56dbA
	☐Temperature Range : Ambient temperature
	☐Certifications/Compliance : CSA, CE, IVD
	☐Type : Benchtop Centrifuge
	☐Includes: 24 x 1.5/2.0mL rotor, 32 x 0.2mL rotor with Click Seal, Biocontainment lid
	☐Description: Micro CL17 Centrifuge Ventilated
	☐Electrical Requirements: 110/240V 50/60Hz
	☐Run Time: 1 to 99min (1min increments); hold
	☐Standards : IEC 61010-1, IEC 61010-2-020
	☐Dimensions (HWD): 8.9 x 9.6 x 13.8in. (22.5 x 24.3 x35.2cm)
	☐Net Weight : 23.1lb. (1.41kg)
333	Micropipette Set
	☐Fully autoclavable Pipettes with Carousel Stand with volume capacity:0.2-2ul, 1-10ul, 2-20ul, 10- 100ul,20-200ul,100-1000ul
	☐Fully Autoclavable at 121 °C for 20 minutes
	☐Triple-Speed Turbo (one rotation of triple dial is equal to 3.5 rotations of the ordinary push- button dial) and with lock lever
	☐Mushroom-shaped button and color coded
	☐Digital indicator

	<ul style="list-style-type: none"> ☐ Inclusions: 200µl, Standard Tip, Graduated, Natural, PP Rack, Sterilized; 1000µl, Standard Tip, Graduated, Natural, System Rack(PP), Sterilized; 20µl, Filter Tip, System Rack(PP), Sterilized, 96 tips/rack, 10 rack/unit
	<ul style="list-style-type: none"> ☐ Inclusions: 200µl, Standard Tip, Graduated, Natural, PP Rack, Sterilized; 1000µl, Standard Tip, Graduated, Natural, System Rack(PP), Sterilized; 20µl, Filter Tip, System Rack(PP), Sterilized, 96 tips/rack, 10 rack/unit
334	THERMALBLOCK
	☐ Max. temperature control range: 110 °C
	☐ Min. temperature control range: -10 °C
	☐ Temperature accuracy: Max. ±0.5 °C at 20 – 45 °C ¹
	☐ Temperature settings: -10 °C/110 °C (110 °C when using the (Smart Blocks 12 mm or cryo)
	☐ Timer: 15 s to 99:30 h, continuous
	☐ Heating rate: Max. 9 °C/min (when using the Smart Block PCR 384) ¹
	☐ Cooling rate Max.: 5.0 °C/min between 110 °C and RT ¹
	☐ Interfaces: USB interface
	☐ Power supply: 220 – 240 V, 50 – 60 Hz
	☐ Max. power consumption: 200 W
	☐ Dimensions (W × D × H): 20.6 × 30.4 × 13.6 cm
	☐ Weight w/o accessories: 4.3 kg
	☐ Temperature range Min: 30 °C below RT, max: 110 °C (110 °C when Using the Smart Blocks 12 mm or cryo)
335	Copper Sulphate, 500 grams/pack
336	Agar-Agar
337	Ethyl Alcohol (95%), Container Size: Water Can
338	Plant Preservative Mixture (PPM), for plant tissue culture at least 25-30 ml per bottle
	Rebidding (GOODS-21-32)
339	Multi-position Hot Plate Stirrer (corrosive resistant)
	☐ 3 independent heating/stirring positions
	☐ 600 x 270 mm footprint or higher
	☐ robust aluminum / silicon alloy top plates or stainless steel with ceramic coating
	☐ Stirring speed: 1500rpm
	☐ Volume: 10 L
	☐ 3 x 25 mm PTFE coated stir bars
340	Top Loading Balance
	☐ Readability (d): 0.01 g
	☐ Weighing range (max): 3600 g
	☐ Taring range (subtractive): 3600 g
	☐ Reproducibility: 0.02g
	☐ Linearity: + - 0.05 g
	☐ Adjustment points: 1.0/2.0/3.0/3.6 kg
	☐ Weighing plate stainless steel mm: 130 x 130
341	Reagent Bottle
	☐ With Stopper/Screw Cap
	☐ Material: Glass/Borosilicate Glass
	☐ Color: Clear/Transparent Flask
	☐ Capacity: 2000mL

	▣ Graduation: 1800mL	
342	Reagent Bottles	
	▣ Amber Glass Wide Mouth Bottle Chemical Reagent Storage Bottles	
	▣ 250 mL capacity	
	▣ Features:	
	—Glass body for chemical, thermal expansion, shock, and heat resistance.	
	—Amber glass bottles are perfect for storing materials which are sensitive to degradation from light.	
	—Wide mouth, cylindrical shape body for a wide variety of applications that require solution containment.	
	—Ground glass stopper seals the bottle to secure contents and help prevent spills and evaporation.	
	—Useful for storing both liquids and powders, widely used in chemistry and biology application	
343	Zinc Chloride, Analytical Grade, 500g/btl	
	▣ AR grade, 500 g per bottle	
344	Iron Chloride, Analytical Grade, 500g/btl	
	▣ AR grade, 500 g per bottle	
345	Copper Chloride, Analytical Grade, 500g/btl	
	▣ Analytical grade, 500g per bottle	
346	Sulfur Powder, Analytical Grade, 500g/btl	
	▣ AR grade, 500g per bottle	
347	Pipette Tips (20 ul)	
	▣ 20 ul capacity	
	▣ autoclavable	
	▣ 100 pcs per pack	
348	Gloves, Nitrile, Medium	
	▣ Glove Type: Chemical Resistant Disposable Gloves	
	▣ Glove Material: Nitrile	
	▣ Powder-Free	
	▣ 1 box of 100 or 50 pairs	
	▣ Food Safe	
	▣ Size: Medium	
349	Test Tube Rack, 12 x 4 for 13 x 100mm test tubes	
	▣ Stainless steel	
350	Reagent Bottles	
	▣ Amber Glass Wide Mouth Bottle Chemical Reagent Storage Bottles	
	▣ 500 mL capacity	
	▣ Features:	
	—Glass body for chemical, thermal expansion, shock, and heat resistance.	
	—Amber glass bottles are perfect for storing materials which are sensitive to degradation from light.	
	—Wide mouth, cylindrical shape body for a wide variety of applications that require solution containment.	
	—Ground glass stopper seals the bottle to secure contents and help prevent spills and evaporation.	
	—Useful for storing both liquids and powders, widely used in chemistry and biology application	
351	1000 µL pipette tips (Blue)	

	☐732012 1000 μ L pipette tips (Blue)
352	200 μL pipette tips (Yellow)
	☐732008 200 μ L pipette tips (Yellow)
353	5000 ul pipette tips (Neutral)
	☐36015000B, 5000 ul pipette tips (Neutral)
354	Beaker, Glass, 50mL
	☐Borosilicate glass
355	Clevenger Apparatus
	☐For extracting essential oil through distillation
356	Round Bottom Flask, 2000mL
	☐Single Standard Mouth Round-bottomed borosilicate glass Flask Capacity 2000ml And Joint 29/32 Single Neck Round Flask
357	Round Bottom Flask, 500mL
	☐Single standard mouth round-bottomed borosilicate glass flask, Capacity 500ml and joint 24/29, Single neck round flask
358	Erlenmeyer Flask, Glass, 5000mL
	☐BOROSILICATE ERLLENMEYER FLASK 5000ml
359	Heating Mantle
	☐220V 500mL/1L/2L Heating Mantle & Magnetic Stirrer Stirring Temperature Regulation Digital Display Lab Electric Sleeve - 2L
360	Glass Vials 2ml
	☐100Pcs/Set 2ml Graduated Clear Sample Vials Autosampler Vials Bottles Threaded Vial w/ Write-on Spot Screw Caps Septa
361	Syringe with Needle 1cc
	☐Syringe 1cc TERUMO (With Needle), 100 units/box
362	Microplate Replicator 96 pin
	☐96-pin replicator 1box(50pc)
363	Inoculating Loop Stainless Steel
	☐10PCS 1-6mm Inoculation Loop Nichrome Wire Lab Bacteria Culture Microbiology
364	Red Natural Rubber Tubing
	☐Natural rubber tube, Red 8mm OD 6mm ID, 2mm thickness 1 meter
365	Hot Plate
	☐1000ml Hot Plate Magnetic Stirrer Lab Heating Speed Control Mixer 220V AU Plug
366	Lab Gown Long Sleeves L
	☐Lab Coat High-quality White
	☐Size- Large; long sleeves
367	Lab Gown Long Sleeves M
	☐Lab Coat High-quality White
	☐Long Sleeves
	☐Medium size
368	Thiazolyl Blue Tetrazolium Bromide (MTT)
	☐MTT [Thiazolyl Blue Tetrazolium Bromide], 1 Gram per bottle, soluble in water
	☐Common Name: Thiazolyl Blue Tetrazolium Bromide
	☐CAS Number: 298-93-1
	☐Molecular Weight: 414.3
	☐Chemical Formula: C ₁₈ H ₁₆ N ₅ SBr

	☐Solubility: Water	
	☐Storage Temperature: 2-8°	
	—Appearance: Yellow to orange yellow powder	
	—Assay (Titration): $\geq 98.0\%$	
	—Heavy Metals: ≤ 5 ppm	
	—Solubility: Clear yellow solution	
	—Water Content: $\leq 0.5\%$	

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,
and
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Note: If the bidder submits item (a), bidder may not submit requirements (b), (c) & (d).

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- ☐ (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 25% of the ABC or at least One Million Three Hundred Forty-Two Thousand Twenty-Two Pesos (PhP 1,342,022.00)*;
or
Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 25% of the ABC or at least One Million Three Hundred Forty-Two Thousand Twenty-Two Pesos (PhP 1,342,022.00)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Six Hundred Seventy-One Thousand Eleven Pesos (PhP 671,011.00)*; **and**
- ☐ (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (i) Conformity with the Technical Specifications; **and**
- ☐ (j) Production/delivery schedule; **and**
- ☐ (k) Manpower requirements; **and**
- ☐ (l) After-sales/parts, if applicable; **and**
- ☐ (m) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary’s Certificate in case of a

corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☐ (n) The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (o) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 5,368,088.00**);
or
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or **PhP 536,808.80**).

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (a) Original of duly signed and accomplished Financial Bid Form; **and**
- ☐ (b) Original of duly signed and accomplished Price Schedule(s).

Guidelines on the Preparation of Electronic Bid (e-Bid)
(for bidders who prefer electronic bid submission)

1. Scan all documents and save as Portable Document Format (PDF) files.
2. Properly label each document for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor's/Business Permit	Mayor's-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements
12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under Financial Component checklist.
4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph before the deadline (August 16, 2021; 8:30 AM).



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