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Date: 1 March 2016

BID BULLETIN NO. 01-2016

Name of Contract: Supply of Equipment for the Isolation, Purification, and Structure Elucidation of Potential Anti-Cancer Compounds from Bioactive Extracts

This Addendum is issued for amendments and clarification of the specifications of the items included in the attached list.

For guidance and information of all concerned.

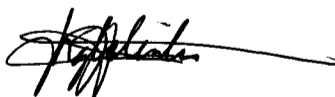
Annabelle U. Novero

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Chair, Special Bids and Awards Committee
for Externally-Funded Research Projects

Bid Bulletin

Project: Equipment for the Isolation, Purification, and Structure Elucidation of Potential Anti-Cancer Compounds from

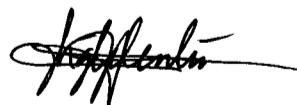
Item #	Qty / Unit	Item Description	Amendments, Additional Specifications/ Clarifications
LOT 1			
1	2 sets	Micropipettors - single (P20, P200, P1000) w/ stand	
		2 sets and each set should have: one 2-20 uL pipet, one 20-200 uL pipet, one 100-1000 uL pipet, one 10-5000 uL stepper, one box stepper adapter (for 25 and 50 mL syringes), one pipet stand, at least one rack each of pipet tips (white, yellow and blue)	
		All pipets must have one year warranty on parts and labor	
		Antimicrobial surface features	
		Large easy to read display	
		Should have locally available pipet calibration service	
2	1 set	Micropipettors (4 sets single w/ stand; 2 pcs multi-channel)	
		4 sets and each set should have: one 0.2 - 2 uL pipet, one 2-10 uL pipet, one 20-200 uL pipet, one 100-1000 uL pipet, one 10-5000 uL stepper, one box stepper adapter (for 25 and 50 mL syringes), one pipet stand, at least one rack each of pipet tips (white, yellow and blue)	
		One 8-channel 10-100 uL multi-channel pipet with one rack pipet tips	One 8-channel 10-100 uL multi-channel pipet with stand and one rack pipet tips
		One 8-channel 30-300 uL multi-channel pipet with one rack pipet tips	One 8-channel 30-300 uL multi-channel pipet with stand and one rack pipet tips
		All pipets must have one year warranty on parts and labor	
		Antimicrobial surface features	
		Large easy to read display	
		Should have locally available pipet calibration service	
3	2 pc	Electric pipettor/Pipet Aide	
		Should be able to hold pipets (glass and plastic) from 1 mL to 100 mL sizes	Unit must be rechargeable
		Rechargeable battery: Lithium-Ion	
		Nosepiece pipet holder: autoclavable silicone rubber	
		Charger should be 220-V compatible	
		Can run 15 hrs of continuous use	
		Can choose from various delivery speeds	
		Package should include table stand, wall mounted holder, 1 mL pipet support	
		Comes with 0.45 um hydrophobic filter (1 box)	
		One year warranty on parts and labor	
		Provide picture of equipment (preferably colored) in the bid docs	



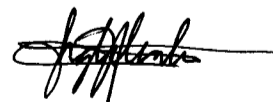
4	1 pc	Stirring hot plate	
		Ceramic top plate	
		LED display	
		Speed range: 50-1500 rpm	
		Max temp.: 540 deg C	
		Power: 230 V, 50/60Hz	
		With automatic over-temperature protection	
		One year warranty on parts and service	
		Provide training for basic operation and maintenance of the equipment	
		Provide picture of equipment (preferably colored) in the bid docs	
5	1 set	Nanopure water purification system	Water purification system
		Can produce Type I AND Type II purified water (for both Analytical e.g. HPLC and Life Science e.g. cell culture applications) from tap water	With AVR
		With remote dispenser	
		With 30 L reservoir	
		With pretreatment cartridges systems	
		With sterile filters	
		With maintenance kit	
		Can deliver/produce at least 100 L water per day	
		Power: 230 V 50/60 Hz	
		With brackets for wall mounting	
		With one spare compatible UV lamp	
		One year warranty on parts and labor	
		Technical support should be readily available	
		Free installation	
		Provide training for basic operation and maintenance of the equipment	
		Provide picture of equipment (preferably colored) in the bid docs	
LOT 2			
1	2 pc	Minifuge (Miniature Centrifuge)	
		Max. Speed: 12,500 rpm	
		Max RCF: 9,800 x g	
		Maximum capacity: 12 x 1.5/2.0 mL	
		Timer: 1 sec to 30 min with quick spin mode	
		Should include 12 x 1.5/2.0 mL tube rotor, 32 x 0.2 mL tube rotor (singles or 4x8 strip), 0.2 and 0.5 mL tube adapters (set of 12 each), universal power adapter 110-240V, 50/60 Hz (with interchangeable plug types)	
		Must be quiet operation and low vibration	
		Two years warranty on parts and service	
		Provide picture of equipment (preferably colored) in the bid docs	
2	1 pc	Cryotank	
		Liq N2 Capacity: around 35 L	With 2 pairs of gloves for handling samples in the cryotank



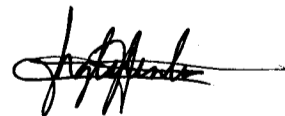
		Neck diameter: around 3.5"	
		Static Evaporation Rate: Less than 0.20L/day	
		With 6 or more canisters, each with 20 canes	
		Total Vial Capacity: At least 700	
		Inclusive of 1.5 mL free cryovials, wheeled cart and alarm	Must include 1000 pcs 2 ml sterile cryovials (screw-capped) with color coding lid top inserts
		One year warranty	One year warranty on parts and labor
		Provide picture (preferably colored) in the bid docs	
3	1 pc	Refrigerated microcentrifuge	
		Max. RCF: 21,100 x g	with AVR
		Max rpm: 14,800 rpm	with tool kit especially tools for disengaging stuck rotors
		Minimal noise	
		Time set range: 1 min to 99 min at 1 min increments	
		Temp set range: -9 deg C to 40 deg C per 1 deg increment	
		Includes 24 x 1.5/2.0 ml rotor with biocontainment lid	
		Includes dual row 18 x 2.0/0.5 mL rotor with screw on lid	
		One year warranty on parts and labor	
		Technical support should be readily available	
		Free installation	
		Provide training for basic operation and maintenance of the equipment	
		Provide picture of equipment (preferably colored) in the bid docs	
4	1 set	Refrigerated universal centrifuge (w/ rotors and adapters for 15 ml & 50 ml tubes & 96-well plate, etc.)	
		Max speed: 15200 rpm (depending on rotor)	with AVR
		Max RCF: 25300 xg (depending on rotor)	with tool kit especially tools for disengaging stuck rotors
		Structure/Housing: Galvanized steel with armoured plating	
		Chamber: Stainless steel	
		Controls: microprocessor-controlled	
		Functions: RCF-selection, temperature control	
		Rotor recognition: automatic	
		Lid lock: automatic lid closing and locking starting from initial hold position	
		Imbalance recognition: electronic	
		Power: 230 V 50/60 Hz	
		With rotor for swinging buckets 750 mL size (capacity: 4x750mL, max speed: 4700rpm, max rcf: 4618 xg)	
		With 750mL size round buckets with clickseal biocontainment lids (4pcs)	



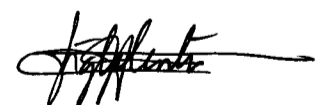
		With Adapter for 50 mL conical tubes (set of 4)	
		With Adapter for 15 mL conical tubes (set of 4)	
		With Adapter for 5-7 mL round bottom tubes (set of 4)	
		With Adapter/Carriers for microplate and T75 flask (with trays and pads)	
		With Fixed-angle rotor with lid for 50 mL round bottom tubes	
		With Fixed-angle rotor with lid for 250 mL bottle	
		With Fixed-angle rotor for 1.5/2mL microtubes	With Fixed-angle rotor with lid for 1.5/2mL microtubes
		One year warranty on parts and service	
		Provide training for basic operation and maintenance of the equipment	
		Provide picture of equipment (preferably colored) in the bid docs	
5	1 pc	Ultralow freezer (-80 deg C)	
		Temperature: -86 degC	With AVR
		Capacity: around 15 cu ft	Capacity: 15 cu ft or 424Liters
		Vial capacity: around 30,000 2 ml vials	Must include 1000 pcs 1.5 ml microfuge tubes (snap cap)
		Electrical requirements: 220 V, 60 Hz	Must include 1000 pcs 2 ml sterile cryovials (screw-capped) with color coding lid top inserts
		With LCD touch-screen display, onboard data logging system, setpoint security and keypad lock features	With 2 pairs of gloves for handling samples inside the ultralow freezer
		Refrigerant should be available in the Philippines	With 10 reusable cryoboxes (at least 96 slots and plastic)
		One year warranty on parts and service	
		Provide picture of equipment (preferably colored) in the bid docs	
LOT 3			
1	1 pc	pH meter	
		pH range: -2 to 16	Additional detail: Table top
		Accuracy: ±0.01 pH + 1 digit	
		Temperature range (sample): 0 to 100°C	
		Temperature selection: automatic or manual	
		Calibration points: 5 pts automatic recognition	
		Buffer recognition: USA or NIST	



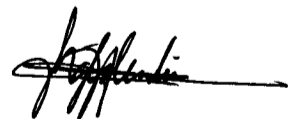
		Environment: 0°C - 50°C (ambient)	
		Relative humidity range: 5% - 95%	
		Simultaneous display of pH and temperature (Digital display, backlight)	
		Memory: 100 data sets	
		pH electrode: glass with electrode holder	
		Temperature probe: Pt 100	
		With buffer solutions 4, 7 and 10	
		Power 220V adapter	
		One year warranty on labor and parts	
		Provide picture of equipment (preferably colored) in the bid docs	
2	1 pc	Vacuum pump	
		Oil free vacuum pump	Additional detail: For liquid media suction and filtration
		Chemical resistant diaphragm pump	
		Power: 220 V	
		Horsepower: 1/6 hp	
		Max flowrate: 20 L/min	
		Noise level: 50 db	
		Port thread: 8 mm (5/16 in)	
		Max vacuum: 750 mmHg	
		One year warranty on labor and parts	
		Provide picture of equipment (preferably colored) in the bid docs	
3	1 pc	Water bath/ Incubator	Water bath
		Capacity/Volume: 14 L	Additional detail: Can accommodate racks for 15 mL and 50 mL tubes
		Temperature: Ambient to 100 deg C	
		Digital display	
		With cover/lid	
		Timer: 0 to 99:59 hrs with 1 min accuracy	
		Power: 220 V	
		Safety: visual alarm if set point is exceeded by 10 degC	
		One year warranty on labor and parts	
		Provide picture of equipment (preferably colored) in the bid docs	
4	1 pc	CO2 Incubator	
		Capacity: around 150 L	Additional detail: Should also include AVR
		Material: fully insulated stainless steel door with double locking and four-point adjustment rear zinc-plated steel	Free on-site installation
		Temperature: ambient +8 to 50 deg C (from 20 deg C)	
		Temp Variation: < +/- 0.1 deg C	
		CO2 Range: 0 to 10% at 0.1% resolution	



		With one cylinder of CO2 gas and appropriate regulator	Clarification: must include two-stage CO2 regulator (pressure gauge), compatible hose and adjustable wrench
		With efficient under- and over-temperature safety feature(s)	
		With comfort Module – two gas connections with quick release connectors, automatic switch-over of gas cylinders	
		With digital display of set and actual values (LED) of temperature and of CO2-concentration	
		With digital 7-day-programme-timer with real time clock, precise minute setting digital display (LED) of all set parameters, such as temperature, weekdays, time, CO2, humidity and set-up values	
		With CO2-supply via sterile filter	
		With CO2-supply being interrupted upon door opening	
		One year warranty on labor and parts	
		Provide picture of equipment (preferably colored) in the bid docs	
LOT 4			
1	1 pc	Vortex mixer	
		Speed Range: 0 - 2,850 rpm	
		Operating Modes: Touch or continuous	
		Ambient Operating Range +4° to 65°C	
		Electrical 230V~, 50 Hz	
		Can accommodate a single tube or a whole handful	Clarification: vibrating top should not only accommodate/hold single tubes but also multiple tubes and small flasks
		One year warranty on labor and parts	
		Provide picture of equipment (preferably colored) in the bid docs	
2	1 pc	Analytical balance	
		Capacity/Resolution: 320 g/0.1 mg	
		Repeatability: <= 0.15 mg	
		Linearity: +/- 0.3 mg	
		Response time: About 3 secs	
		Pan size: 80 mm diameter	
		Calibration: Internal or external	Clarification: Calibration = Internal
		Unibloc (monobloc) design for reliability	
		With backlit display	
		Aluminum die-cast housing	
		Automatic calibration for accuracy across temperature variations	
		One year warranty on parts and labor	
		Provide picture of equipment (preferably colored) in the bid docs	



3	1 set	Horizontal agarose gel electrophoresis system	
		Cell size (W x L x H): 17.8 x 25.5 x 6.8 cm	
		Gel tray sizes (OD) (W x L): 15 x 7 cm, 15 x 10 cm, 7 x 7 cm , 7 x 10 cm	
		Base buffer volume approximately ~650 ml	
		No buffer recirculation	
		Bromophenol blue migration ~4.5 cm/hr (at 75 V)	
		Should include casting gates, tray and combs	
		With combs for 8- and 12-well gels	
		With 220V Power supply	Clarification: power supply should have at least two outputs and can deliver voltage from 10 to 300 V in 1 V increment
		One year warranty	
		Provide picture of equipment (preferably colored) in the bid docs	
4	1 pc	Sonicator (Ultrasonic cleaner w/ heater and timer)	
		Variable frequency: 20-50 kHz	With stainless steel tray(s)
		Power: 220 V	With AVR
		Variable Temp: Ambient to 95 deg C	Volume of water chamber is at least 5 L not 1 L
		With timer	
		Water chamber can hold at least 1 L	
		Digital display	
		One year warranty on parts and labor	
		Provide picture of equipment (preferably colored) in the bid docs	



5	1 pc	Autoclave	
		Capacity: 60 L	Should be inclusive of 500 pcs large autoclavable bags
		Controller: PID controller	With AVR
		Timer: 2 digits hours: 2 digits minutes	With portable stainless steel electric autoclave, 220V, at least 24-L volume, silicone seal, working temperature max: 129 degC, working pressure max: 0.165 MPa, have high pressure faucet and automatic control if water shortage, with dual scale pressure gauge, with automatic water exhaust, temperature and time of sterilization can be set, sterilizing time range: 0-80min, easy operation, safe and reliable
		Max temp: 140 deg C	
		Max pressure: 0.27 Mpa	
		Usable temp (sterilisation): 40 to 140 deg C	
		Safety: interlock system, electro mechanical lock, double check of lid close, overpressure detector, over temperature detector, water lack preventor, sensor break indicator, abnormal time indicator, safety valve, and breaker for leakage, overcurrent and short circuit	
		Comes with drain hose and drain bottle	
		Quick lock lid	
		Graphical display to indicate current process	
		Reliable air exhaust system	
		Adjustable auto exhaust	
		Memory backup	
		Supplied with 2 stainless steel baskets (standard)	
		One year warranty on parts and labor	
		Power: 230 V / 2 kW	
		Provide picture of equipment (preferably colored) in the bid docs	

