



Philippine Rice Research Institute
Central Experiment Station
Maligaya, Science City of Muñoz, 3119 Nueva Ecija

29 May 2024

Bid Bulletin No. 2

**Subject: SUPPLY AND DELIVERY OF LABORATORY CHEMICALS AND SUPPLIES
PB 24-02-21**

This bid bulletin is being issued to clarify and amend Section VI. Schedule of Requirements and Section VII. Technical Specifications in the bidding document.

Please refer to the attached documents for complete details.

Section VII (Revised Technical Specifications) must be included in the bid proposal as part of the Eligibility and Technical Component (1st envelope) to signify conformity to the revisions.

Please be guided accordingly.

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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	Unit	Qty	Total ABC	Division	Delivery Period (upon receipt of PO/NTP)
1.	PCR Plates	pack	5	22,500.00	CBC	90 CD
2.	Microcentrifuge Tube	pack	5	5,000.00	CBC	
3.	Microcentrifuge Tube	pack	3	4,500.00	CBC	30 CD
4.	Microtubes	pack	15	14,250.00	CBC	60 CD
5.	Microtubes	pack	15	15,000.00	CBC	90 CD
6.	Pipette Tips, Blue	case	12	21,600.00	CBC	30 CD
7.	Pipette Tips, Yellow	case	11	11,000.00	CBC	
8.	Pipette Tips, White	case	12	16,800.00	CBC	
9.	Lint-free Wipes	pack	55	13,750.00	CBC	
10.	PCR Plates, non-skirted	pack	5	35,000.00	CBC	90 CD
11.	PCR Plates, full skirted	pack	1	11,000.00	CBC	
12.	Laboratory marker	piece	20	3,600.00	CBC	30 CD
13.	Centrifuge Tubes	pack	2	18,000.00	CBC	90 CD
14.	96-well Plate Sealing Film	pack	1	30,000.00	CBC	
15.	Syringe	piece	50	10,000.00	CBC	30 CD
16.	PCR Plates	pack	2	60,000.00	CBC	
17.	PCR Plates	pack	10	45,000.00	CBC	
18.	Protein Fusion and Purification System	kit	2	170,000.00	CBC	
19.	Lint-free Wipes	pack	1	13,000.00	CBC	
20.	Metallic Beads	pack	2	104,000.00	CBC	
21.	Centrifuge Tubes	pack	4	2,800.00	RCFSD	

22.	Centrifuge Tubes	pack	4	3,200.00	RCFSD	
23.	Dry Rehydratable Film	pack	1	6,000.00	RCFSD	
24.	Dry Rehydratable Film	pack	1	5,000.00	RCFSD	
25.	Test Tube Brush	piece	8	6,400.00	RCFSD	
26.	Alcohol Lamp,	piece	4	600.00	RCFSD	
27.	Iris scissors	piece	10	3,000.00	RCFSD	
28.	Filter paper	pack	6	24,000.00	RCFSD	
29.	Beaker	piece	1	7,000.00	RCFSD	
30.	Parafilm	roll	1	3,000.00	RCFSD	
31.	Scintillation Vials	pack	3	3,000.00	RCFSD	
32.	Volumetric Flask	piece	50	37,500.00	RCFSD	
33.	Magnetic Stirring Bar	piece	2	2,000.00	RCFSD	
34.	Laboratory marker	piece	50	8,167.50	PBBD	
35.	Petri dish	pack	35	63,000.00	PBBD	
36.	Iris scissors	piece	5	1,000.00	PBBD	
37.	Microtubes, 2.0ml	pack	18	21,600.00	PBBD	
38.	Microtubes, 1.5ml	pack	18	21,600.00	PBBD	
39.	Lint-free Wipes	pack	24	4,800.00	PBBD	
40.	Pipette Tips, Blue	case	12	54,000.00	PBBD	
41.	Pipette Tips, Yellow tips	case	1	4,500.00	PBBD	
42.	Pipette Tips, White	case	5	50,000.00	PBBD	
43.	PCR Plates	pack	5	35,000.00	PBBD	
44.	Laboratory marker	piece	20	3,000.00	PBBD	
45.	Ethyl Alcohol 95%	carbouy	10	26,620.00	PBBD	
46.	Silica Gel	pack	1	80,000.00	PBBD	
47.	Mineral Oil	bottle	3	27,000.00	CBC	

48.	LB Broth	bottle	6	24,000.00	CBC	60 CD
49.	Reagent Reservoir	piece	10	2,500.00	CBC	30 CD
50.	Agarose, Low EEO	bottle	9	148,500.00	CBC	60 CD
51.	RedSafe Nucleic Acid Staining Sol, 1ml	bottle	14	112,000.00	CBC	45 CD
52.	Ethanol, 2.5L	bottle	5	21,000.00	CBC	30 CD
53.	PTC Agar	bottle	2	8,000.00	CBC	
54.	Ethanol	carbouy	10	30,000.00	CBC	
55.	Tris Base, 500g	bottle	1	5,000.00	CBC	60 CD
56.	Sodium hypochlorite	carbouy	5	7,500.00	CBC	30 CD
57.	Morpholinoethane sulfonic acid	bottle	1	73,000.00	CBC	60 CD
58.	Ethylenediaminetetraacetic acid, EDTA, Disodium salt	bottle	1	8,000.00	CBC	30 CD
59.	PCR Buffer	pack	5	30,000.00	CBC	
60.	Alcohol, Ethyl Alcohol	carbouy	20	60,000.00	CBC	
61.	Alcohol, Ethyl Alcohol	carbouy	2	6,000.00	CBC	
62.	Silica Gel	pack	2	15,800.00	CBC	
63.	Sodium Hydroxide, 500g	bottle	1	3,000.00	CBC	
64.	Temed, 100ml	bottle	2	15,000.00	CBC	60 CD
65.	Sanger Sequencing	lot	1	245,000.00	CBC	30 CD
66.	DNA ladder	bottle	10	60,000.00	CBC	
67.	DNA Ladder	bottle	3	12,000.00	CBC	
68.	RNA extraction kit for plant sample	kit	1	134,000.00	CBC	
69.	cDNA Synthesis Kit	kit	2	96,000.00	CBC	
70.	Gel/PCR Purification Kit	kit	3	75,000.00	CBC	60 CD
71.	Deoxynucleoside	Set	9	171,000.00	CBC	

	Triphosphate					
72.	Microplates	kit	5	92,500.00	CBC	30 CD
73.	Dye	bottle	3	69,000.00	CBC	
74.	Taq DNA Polymerase	kit	20	136,000.00	CBC	60 CD
75.	D-Glucose	bottle	8	28,000.00	CBC	
76.	Ethylenediaminetetraacetic acid	bottle	1	6,270.00	CBC	60 CD
77.	Cetyltrimethylammonium Bromide (CTAB)	bottle	1	14,500.00	CBC	30 CD
78.	Sodium Dodecyl sulfate	bottle	1	6,000.00	CBC	
79.	Absolute Ethanol	piece	1	4,000.00	CBC	
80.	2-Propanol	bottle	1	3,000.00	CBC	
81.	Acrylamide	bottle	3	75,000.00	CBC	
82.	TRIS-HCl	bottle	1	4,500.00	CBC	
83.	Nucleic Acid Stain	tube	3	22,500.00	CBC	
84.	Nuclease-free water	bottle	1	5,000.00	CBC	60 CD
85.	PCR Buffer	pack	5	40,000.00	CBC	30 CD
86.	Sodium chloride	bottle	2	2,000.00	CBC	
87.	2-Propanol	bottle	2	2,000.00	CBC	
88.	Agarose	bottle	2	34,000.00	CBC	
89.	Ammonium Persulfate	bottle	1	22,000.00	CBC	
90.	Calcium chloride anhydrous	bottle	1	1,300.00	CBC	
91.	Absolute Ethanol	piece	3	7,500.00	CBC	
92.	DNA Ladder	bottle	5	32,500.00	CBC	60 CD
93.	GoTaq Reaction Buffer	pack	5	40,000.00	CBC	30 CD
94.	DNA Staining solution	tube	1	7,500.00	CBC	
95.	DNA Extraction Kit	kit	1	40,000.00	CBC	

96.	PCR clean-up	piece	1	25,000.00	CBC	60 CD
97.	PCR cloning kit	kit	1	50,000.00	CBC	30 CD
98.	Deoxynucleoside Triphosphate	set	4	40,000.00	CBC	60 CD
99.	Guanidine hydrochloride	bottle	1	17,262.00	CBC	
100.	Taq DNA Polymerase	kit	20	140,000.00	CBC	
101.	Mueller Hinton Broth	bottle	1	7,000.00	RCFSD	30 CD
102.	MS Salt	bottle	1	32,000.00	RCFSD	60 CD
103.	Maltose	bottle	4	68,000.00	RCFSD	
104.	Ethyl Alcohol	carbouy	2	6,000.00	RCFSD	
105.	Naphthaleneacetic acid	bottle	1	3,000.00	RCFSD	30 CD
106.	Ethanol, Absolute	bottle	1	4,000.00	RCFSD	
107.	Diethylenetriaminepentaacetic acid	bottle	1	6,000.00	RCFSD	60 CD
108.	Triethanolamine	bottle	1	8,500.00	RCFSD	30 CD
109.	Propanol, Isopropanol	bottle	1	3,000.00	RCFSD	
110.	Zinc	piece	1	8,500.00	RCFSD	60 CD
111.	Cetyltrimethylammonium Bromide (CTAB)	bottle	1	7,000.00	RCFSD	30 CD
112.	Myo-inositol	bottle	1	9,000.00	RCFSD	60 CD
113.	PTC Agar	bottle	6	24,000.00	RCFSD	30 CD
114.	Microbial Culture (Lactic Acid Bacteria)	piece	3	7,410.00	RCFSD	
115.	cDNA Synthesis Kit	kit	1	62,569.34	RCFSD	60 CD
116.	cDNA Synthesis Kit	kit	2	90,000.00	RCFSD	30 CD
117.	Fetal bovine serum	bottle	2	76,000.00	RCFSD	60 CD
118.	RNA, DNA and Protein Extraction Reagent	bottle	1	50,000.00	RCFSD	30 CD

119.	Minimum Essential Medium Eagle (MEM α)	bottle	6	45,000.00	RCFSD	60 CD
120.	Thidiazuron	bottle	1	15,000.00	RCFSD	30 CD
121.	Dulbecco's Modified Eagle's Medium (DMEM)	bottle	6	51,000.00	RCFSD	60 CD
122.	Ethylenediaminetetraacetic acid, Trypsin-EDTA solution	bottle	2	30,000.00	RCFSD	
123.	qPCR Master Mix, cDNA Master Mix with gDNA remover	kit	1	80,000.00	RCFSD	30 CD
124.	qPCR Master 2X Mix, One-Step qRT-PCR Master Mix Kit	kit	1	80,000.00	RCFSD	
125.	Propanol, Isopropanol	bottle	2	27,400.00	PBBD	30 CD
126.	Sodium Dodecyl sulfate	bottle	2	3,000.00	PBBD	
127.	Acrylamide	bottle	20	300,000.00	PBBD	
128.	Temed	bottle	3	13,860.00	PBBD	60 CD
129.	Ammonium Persulfate, mol grade	bottle	2	7,405.20	PBBD	
130.	Ethylenediaminetetraacetic acid, EDTA, Disodium salt	bottle	2	12,540.00	PBBD	
131.	Sodium chloride	bottle	2	14,057.80	PBBD	
132.	Ethyl Alcohol	carbouy	5	13,310.00	PBBD	30 CD
133.	Chloroform	bottle	2	7,425.00	PBBD	
134.	Ammonium Persulfate	bottle	2	7,405.20	PBBD	60 CD
135.	Sodium Hydroxide	bottle	2	5,720.00	PBBD	30 CD
136.	Boric Acid	bottle	2	3,630.00	PBBD	
137.	Xylene Cyanol	bottle	2	14,000.00	PBBD	60 CD
138.	Tris Base	bottle	3	22,096.80	PBBD	
139.	Bromophenol blue	bottle	2	8,000.00	PBBD	

140.	Ethyl Alcohol	bottle	10	20,000.00	PBBD	30 CD
141.	DNA Ladder	bottle	20	100,000.00	PBBD	
142.	Taq DNA Polymerase	kit	15	375,000.00	PBBD	60 CD
143.	Dye	bottle	5	50,000.00	PBBD	30 CD
144.	PCR Master Mix	box	30	132,000.00	PBBD	60 CD
145.	Deoxynucleoside Triphosphate	set	10	52,850.00	PBBD	30 CD
146.	qPCR Master Mix	box	30	123,000.00	PBBD	

TOTAL ABC = P 5,543,098.84

SECTION VII. Technical Specifications

Item	Specification	Statement of Compliance
		<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>
1	Five (5) packs PCR Plates 96-well; skirted; 50 pcs/pack	
2	Five (5) packs Microcentrifuge Tube 1.5ml polypropylene, withstand up to 14000RCF, sterile maximum recovery prosted cap, snap lock, clear, RNase-/DNase-free, Nonpyrogenic, conical bottom 500pcs/pack	

3	<p>Three (3) packs Microcentrifuge Tube</p> <p>0.5ml</p> <p>Quantitative PCR compatible tubes for a wide range of Real-Time PCR instruments</p> <p>-flat cap,</p> <p>-tubes with caps sealed full-length; insertion cap ensures tight fit, eliminates sample evaporation</p> <p>-Certified RNase-/DNase-free</p> <p>-non-pyrogenic</p> <p>-non-sterile</p> <p>-polypropylene</p> <p>-conical bottom</p> <p>-1000 pcs/pack</p>	
4	<p>Fifteen (15) packs Microtubes</p> <p>1.5 ml, autoclavable</p> <p>Certified RNase, DNase and Pyrogen-Free, flat-top cap design, frosted writing area and precise graduations, Boil-Proof, conical bottom, 500 pcs/pack</p>	
5	<p>Fifteen (15) packs Microtubes</p> <p>2.0 ml, autoclavable</p> <p>polypropylene, with stand up to 14000RCF, sterile maximum recovery frosted cap, snap lock, clear, RNase-/DNase-free Nonpyrogenic, conical bottom, 500pcs/pack</p>	
6	<p>Twelve (12) cases Pipette Tips</p> <p>Blue(100-1000 ul) tips, 1,000pcs/case</p>	
7	<p>Eleven (11) cases Pipette Tips</p> <p>Yellow(10-200 ul) tips, 1,000pcs/case</p>	

8	Twelve (12) cases Pipette Tips, White, (0.1-10 ul) tips, 1,000pcs/case	
9	Fifty-five (55) packs Lint-free Wipes 111.76mm x 213.36mm; white; 280pulls/pack	
10	Five (5) packs PCR Plates 96-well; non-skirted; 50 pcs/pack	
11	One (1) pack PCR Plates PCR Plates, 0.2 ml, conical bottom 96-well; full skirted	
12	Twenty (20) pieces Laboratory Marker, extra fine tip, black, alcohol/water resistant, permanent	
13	Two (2) packs Centrifuge Tubes, 8-PCR tube strip with flat cap; ultraclear; 120 pcs/pack ; for qPCR assay; compatible with qTower Analytic Jena qPCR machine	
14	One (1) pack 96-well Plate Sealing Film optical sealing foil for 96-well qPCR plate, peelable, 100pcs/pack; optical window free of adhesive	
15	Fifty (50) pieces Syringe filter syringe, for sterile filtration; Cellulose Acetate ; hydrophilic; 0.22 micrometers x 25 mm; luer lock/luer slip; Sterile, individually packed	
16	Two (2) packs PCR Plates	

	96 well full-skirted PCR plate, volume 0.2 mL, low profile, white, 100 pcs/pack, compatible with qTower Analytic Jena qPCR machine	
17	Ten (10) packs PCR Plates 0.2 ml, 96-well; non-skirted; 50 pcs/pack	
18	Two (2) kits Protein Fusion and Purification System maltose-binding protein, pMAL-c6T vector, 20 rxns	
19	One (1) pack Lint-free Wipes 111.76mm x 213.36mm; white; 280pulls/box 60 boxes/pack	
20	Two (2) packs Metallic Beads Grinding Balls, Stainless Steel, 5mm, 1000 pcs/pack or 500g/pack	
21	Four (4) packs Centrifuge Tubes 15 mL capacity, 25 pcs/pack clear, polypropylene, conical tubes; with leak-proof closure; can withstand 12,000 RCF; sterile; RNase-/DNase-free and nonpyrogenic; with printed graduations; frosted white portion for writing	
22	Four (4) packs Centrifuge Tubes 50 mL capacity, 25 pc/pack clear, polypropylene, conical tubes; with leak-proof closure; can withstand 12,000 RCF; sterile; RNase-/DNase-free and nonpyrogenic; with printed graduations; frosted white portion for writing; non-skirted	
23	One (1) pack Dry Rehydratable Film	

	(E. coli/coliform), dry rehydratable or equivalent, 25s/pack	
24	One (1) pack Dry Rehydratable Film (Aerobic plate Count), dry rehydratable or equivalent, 100s/pack	
25	Eight (8) pieces Test Tube Brush Test tube brush with nylon bristles, 15 mm diameter, 23 cm lengthFDA grade brushes resistant to acid and other corrosive chemicals	
26	Four (4) pieces Alcohol Lamp with metal cap, 60 ml-capacity, glass, clean burning flame with ordinary denatured alcohol; ; can withstand temperatures up to 392 degrees; light weight and smooth surface; no liquid spilling,	
27	Ten (10) pieces Iris scissors STAINLESS STEEL- 5 INCHES	
28	Six (6) packs Filter paper 2.5 um particle mesh, ashless, 125 mm diameter, slow flowrate, 200um thickness; materials are made of high-quality cotton linters, (100 s/pack), quantitative filter paper, high-quality cotton linters, ashless, circle, diam. <div></div>	
29	One (1) piece Beaker 5L capacity, borosilicate (glass); highly resistant to chemical exposure, thermal expansion, and thermal shock	
30	One (1) roll Laboratory Film 100mm X 38m; clings even around irregular shapes and surfaces	
31	Three (3) packs Scintillation Vials	

	Scintillation vials, plastic with cover, 20 ml capacity (100 pcs/pack)	
32	Fifty (50) pieces Volumetric Flask Volumetric flask with blue snap cap; 50 ml capacity; Material made of borosilicate glass; Outer diameter x height (mm): 50.5 x 150	
33	Two (2) pieces Magnetic Stirring Bar polygon shaped, autoclavable, coated with Teflon Polytetrafluoroethylene (PTFE) material, 50mm x 8mm	
34	Fifty (50) pieces Laboratory Marker Extra fine, quick dry, non-erasable on plastic, black	
35	Thirty-Five (35) packs Petri Dish standard 90mm x 15mm dish with lid, crystal clear glass, reusable, autoclavable, 10 pcs/pack	
36	Five (5) pieces Iris scissors Iris scissors, handle: finger rings; approximately 11.5 cm length	
37	Eighteen (18) packs Microtubes 2.0 ml , autoclavable Certified RNase, DNase and Pyrogen-Free, flat-top and snap cap design, frosted writing area and precise graduations, Boil-Proof, conical bottom, 500pcs./pack	
38	Eighteen (18) packs Microtubes 1.5 ml, autoclavable Certified RNase, DNase and Pyrogen-Free, flat-top and snap cap design, frosted writing area and precise graduations, Boil-Proof, conical bottom, 500pcs/pack	

39	Twenty-Four (24) packs Lint-free Wipes 111.76 mm x 213.36 mm, white, 280 pulls/pack	
40	Twelve (12) cases Pipette Tips Blue, (100-1000 ul) tips; universal tip, Beveled, non-sterile, made of polypropylene and are autoclavable, non-pyrogenic certified and RNase and DNase free, 1000 pcs/pack, 5 packs/case	
41	One (1) case Pipette Tips Yellow tips (10-100ul), 500 pcs/pack, 5 packs/case	
42	Five (5) cases Pipette Tips White (1-10 ul) tips; 1000 tips/pack, 20 packs/case	
43	Five (5) packs PCR Plates 0.2 ml, 96-well; non-skirted; 50 pcs/pack	
44	Twenty (20) pieces Laboratory marker extra fine tip, black, alcohol- and water resistant	
45	Ten (10) carbouy Ethyl Alcohol 95% ethyl alcohol, 20L/carbouy	
46	One (1) pack Silica Gel 25kg per pack, non-indicating, round beads, industrial grade	
47	Three (3) bottles Mineral Oil 500ml/bottle , molecular grade	

48	Six (6) bottles LB Broth Powder 500g/bottle, for microbiology grade	
49	Ten (10) pieces Reagent Reservoir Polystyrene, 25 ml, gamma sterile, rectangular	
50	Nine (9) bottles Agarose Low EEO, 500g/bottle , for electrophoresis With Safety Data Sheet (SDS)	
51	Fourteen (14) bottles Nucleic Acid Gel Stain, Nucleic Acid Staining Sol, 1ml 10000X, 0.5 ml- (roots team)	
52	Five (5) bottles Ethanol 2.5 L Alcohol (absolute, AR grade)	
53	Two (2) bottles Agar, PTC Agar Agarite, suitable for plant tissue culture, 500g/bottle With Safety Data Sheet (SDS)	
54	Ten (10) carbouy Ethanol Technical grade, 95%, 20L/carbouy	
55	One (1) bottle Tris Base 500g/bottle Molecular biology grade With Safety Data Sheet (SDS)	
56	Five (5) carbouy Sodium hypochlorite	

	Technical Grade, 20 L/carbouy With Safety Data Sheet (SDS)	
57	One (1) bottle Morpholinoethane sulfonic acid, monohydrate (MES) buffer 500g/bottle Appearance; White crystalline powder Purity (Titration); more than or equal to 99.0 % ULTRA PURE GRADE Solubility in water: To pass test (clear, colorless) less than or equal to 0.020 With Safety Data Sheet (SDS)	
58	One (1) bottle Ethylenediaminetetraacetic acid, EDTA, Disodium salt 500g/bottle, AR Grade With Safety Data Sheet (SDS)	
59	Five (5) packs PCR Buffer 5x green reaction buffer, 4 tube x 5 ml	
60	Twenty (20) carbouy Ethyl Alcohol 20L/carbouy , 95%	
61	Two (2) carbouy Ethyl Alcohol Alcohol (Medical) Ethyl Alcohol 95% 20L /carbouy	
62	Two (2) packs Silica Gel 1kg/pack color changes when absorbed moisture	

	can be regenerated when heated at a maximum temperature of 120C	
63	One (1) bottle Sodium Hydroxide 500g Sodium hydroxide (NaOH), molecular grade, pellet, AR With Safety Data Sheet (SDS)	
64	Two (2) bottles Temed electrophoresis grade for molecular biology, greater than or equal to 99%, 100ml/bottle With Safety Data Sheet (SDS)	
65	One (1) lot Sanger Sequencing Sanger Sequencing Kit, 200rxs consists of: 2 x 1 BigDye Terminator v1.1 and v2.1 sequencing buffer (5x) 1 x 800ul BigDye Terminator v3.1 ready reaction mix 1 x Big Dye Purification Kit, 100ml for SeqStudio Genetic Analyzer	
66	Ten (10) bottles DNA Ladder 100bp, 100ng/ul 1x1ml, 13 gel lanes	
67	Three (3) bottles DNA Ladder 1Kb DNA ladder, 500uL volume Range: 100-10000bp 13 bands 100ug/ml concentration" 13 gel lanes	

68	<p>One (1) kit RNA isolation kit for plant sample</p> <p>250 preps</p> <p>Kit contents:</p> <p>Lysis Buffer RA1-125mL</p> <p>Lysis Buffer RAP-125mL</p> <p>Wash Buffer RAW2- 80 mL</p> <p>Wash buffer RA3 (concentrate): 3x25mL</p> <p>membrane desalting buffer MDB- 125mL</p> <p>reaction buffer for rDNase-30mL</p> <p>rDnase, RNase-free (lyophilized)- 5 vials (size F)</p> <p>RNase-free H2O- 60 mL</p> <p>Filters (violet rings)250</p> <p>RNA plant columns (light blue rings- plus Collection Tubes)- 250</p> <p>Collection tubes (2mL)- 750</p> <p>Collection tubes (1.5mL)- 250</p> <p>User manual-1</p>	
69	<p>Two (2) kits cDNA Synthesis Kit</p> <p>1-step kit cDNA synthesis kit/ RTPCR Kit</p> <p>250 reactions</p> <p>500 x 20ul reactions: qPCR Master Mix (5ml 2X concentration) uses 200 uL 50X ROX high and low reference dyes (separate vials),</p> <p>with 200 uL 10mM dUTP and 200 uL RT mix (50X concentration): compatible with Bio-Rad CFX96</p>	
70	<p>Three (3) kits Gel/PCR Purification Kit</p> <p>50 reactions</p> <p>Features</p> <p>Up to 95% recovery of ready-to-use DNA</p>	

	<p>Fast and convenient procedure</p> <p>Cleanup of DNA up to 10 kb</p> <p>Gel loading dye for convenient sample analysis</p> <p>Combined kit for gel extraction and PCR cleanup</p>	
71	<p>Nine (9) sets Deoxynucleoside Triphosphate, dNTP solution set</p> <p>100mm, 4x25umol</p> <p>dNTP set, 4x 100umol</p> <p>4x4x250ul</p>	
72	<p>Five (5) kits Microplates</p> <p>96-Well x 250uL Flexible Flat-Bottom Microplate without Lid, Non-Treated Clear PVC, Sterile (Case of 100)</p>	
73	<p>Three (3) bottles Dye</p> <p>Brilliant Blue G- Pure. Appearance (Form) - Powder, Solubility (Color) - Dark Blue to Very Dark Blue, Solubility (Form) Solution - 1 mg/mL, H2O, Suitable for use as a reagent in protein determinations, Purity (HPLC)- ; 80 %, 20-25 grams per bottle</p>	
74	<p>Twenty (20) Taq DNA Polymerase</p> <p>500u Kit, 500units, 1x100ul Taq DNA polymerase , 4x1ml Taq reaction buffer</p>	
75	<p>Eight (8) bottles D-Glucose</p> <p>glucose ACS, 250g/bottle</p> <p>With Safety Data Sheet (SDS)</p>	
76	<p>One (1) bottle Ethylenediaminetetraacetic acid, EDTA Disodium salt</p> <p>molecular grade, 500g/bottle</p> <p>With Safety Data Sheet (SDS)</p>	

77	One (1) bottle Cetyltrimethylammonium Bromide (CTAB) AR, 500g/bottle With Safety Data Sheet (SDS)	
78	One (1) bottle Sodium Dodecyl Sulfate molecular grade 500g/bottle With Safety Data Sheet (SDS)	
79	One (1) piece Ethanol 2.5L, absolute	
80	One (1) bottle 2-Propanol 4L Propanol, 99%	
81	Three (3) bottles Acrylamide 40% acrylamide and bis-acrylamide solution, 19:1, 2x500ml With Safety Data Sheet (SDS)	
82	One (1) bottle Tris-HCl 500g /bottle, AR With Safety Data Sheet (SDS)	
83	Three (3) tubes Nucleic Acid Stain 10000x in water, 0.5 ml/tube, red	
84	One (1) bottle Nuclease-free water 500ml/bottle Molecular Biology Grade	
85	Five (5) packs PCR Buffer	

	5x Green PCR Buffer, 4pcs/pack, 20ml	
86	Two (2) bottles Sodium chloride 500g/bottle, AR With Safety Data Sheet (SDS)	
87	Two (2) bottles 2-Propanol 4 liters/bottle ACS grade	
88	Two (2) bottles Agarose, Low EEO 500g /bottle, for electrophoresis With Safety Data Sheet (SDS)	
89	One (1) bottle Ammonium Persulfate Free-flowing; ACS reagent, greater or equal to 98%; 500g per bottle, mol grade With Safety Data Sheet (SDS)	
90	One (1) bottle Calcium chloride Dihydrate AR, 500g /bottle With Safety Data Sheet (SDS)	
91	Three (3) pieces Absolute Ethanol, 2.5L Formula: C2H5OH MW: 46.07 g/mol. Boiling Pt: 78.3°C (1013 hPa) Melting Pt: (-117°C) Density: 0.7895 g/cm ³ (20°C) Flash Pt: 12°C (closed cup) Storage Temperature: Ambient.	
92	Five (5) bottles DNA Ladder	

	<p>100bp, 100ng/ul 1x1ml</p> <p>Ready-to-use</p>	
93	<p>Five (5) packs GoTaq Reaction Buffer</p> <p>5x Green PCR Buffer</p> <p>4 x 5 ml</p>	
94	<p>One (1) tube DNA Staining solution</p> <p>ultra sensitive, extremely stable and environmentally safe fluorescent nucleic acid dye for staining ds DNA, ssDNA or RNA in agarose gels or polyacrylamide gels, 10000X in water, 500ul/tube</p>	
95	<p>One (1) kit DNA Extraction Kit</p> <p>Extraction kit for plasmid DNA, bacteria 250 rxn</p>	
96	<p>One (1) piece PCR clean-up, sample purification</p> <p>PCR and Gel DNA clean-up kit-200 preps</p>	
97	<p>One (1) kit PCR cloning kit, Recombinant DNaseI</p> <p>50 rxns</p> <p>DNA Cloning System</p> <p>cloning of all PCR products, including blunt and TA ends;</p> <p>with competent cells</p> <p>Includes vector, cloning mix, stable competent cells, cloning control DNA and primers, culture media; with 1 year shelf life</p>	
98	<p>Four (4) Deoxynucleoside Triphosphate, dNTP solution set,</p> <p>100 mM each of dATP, dCTP, dGTP, and dTTP. Each vial contains 250 µL 25 µmol dNTP in purified water</p>	

99	One (1) bottle Guanidine hydrochloride 100g/bottle Molecular Biology grade With Safety Data Sheet (SDS)	
100	Twenty (20) kits Taq DNA Polymerase 500U; 5U/ul; recombinant; with separate magnesium chloride (1x1000ul) and buffer (4x1ml)	
101	One (1) bottle Mueller Hinton Broth 500g Analytical grade With Safety Data Sheet (SDS)	
102	One (1) bottle MS Salt MS Salt Powder Plant Tissue Culture, 50L Murashige, Skoog Basal salt mixture (analytical grade) With Safety Data Sheet (SDS)	
103	Four (4) bottles Maltose, 1kg/bottle powder suitable for plant cell culture analytical grade, With Safety Data Sheet (SDS)	
104	Two (2) carbouy Ethyl Alcohol 20L/carbuoy technical grade, 95%	
105	One (1) bottle Naphthalene Acetic Acid Assay >=95%, 25g (analytical grade)	

	With Safety Data Sheet (SDS)	
106	One (1) bottle Ethanol 2.5L Absolute, Analytical Grade	
107	One (1) bottle Diethylenetriaminepentaacetic acid Diethylene Triammine Penta acetic acid, 100 g, Analytical Grade With Safety Data Sheet (SDS)	
108	One (1) bottle Triethanolamine 2.5 li, Analytical grade With Safety Data Sheet (SDS)	
109	One (1) bottle Propanol, Isopropanol Propanol, 99% 2.5 L/bottle	
110	One (1) piece Zinc Standard, 1000ppm 500ml, for AAS Zn AAS standard, 1000 ppm With Safety Data Sheet (SDS)	
111	One (1) bottle Cetyltrimethylammonium Bromide (CTAB) AR, 500g With Safety Data Sheet (SDS)	
112	One (1) bottle Myo-inositol white, powder, >99% purity, 100g With Safety Data Sheet (SDS)	
113	Six (6) bottles PTC Agar	

	Plant tissue culture agar, microbiology grade, 500g/bottle With Safety Data Sheet (SDS)	
114	Three (3) pieces/ Microbial Culture Aspergillus oryzae, Staphylococcus aureus, Clostridium perfringens	
115	One (1) kit cDNA synthesis kit contains random hexamer and oligo-dT primers, dNTPs, RNase Inhibitor, and Reverse Transcriptase; 250 reactions, expiration/shelf-life of at least 1 year upon delivery; frozen when transported	
116	Two (2) kita cDNA Synthesis Kit 300 reactions, contains random hexamer and oligo-dT primers, dNTPs, RNase Inhibitor, and Reverse Transcriptase; expiration/shelf-life of at least 1 year upon delivery; frozen when transported	
117	Two (2) bottles Fetal Bovine Serum MolBio grade; 500 mL/bottle, heat inactivated, sterile filter, suitable for cell culture; Expiration/shelf-life of at least one year upon delivery, Reagents should be frozen liquid when transported With Safety Data Sheet (SDS)	
118	One (1) bottle RNA, DNA, Protein Extraction Reagent 200 mL per bottle ;ready-to-use reagent for the isolation of high-quality total RNA or the simultaneous isolation of RNA, DNA, and protein from a variety of biological samples; Applications: RT-PCR, qPCR, cDNA library construction, NGS, microarray	

	analysis, blot hybridization, Northern/Southern/Western blotting, in vitro translation, nuclease protection assays, nucleic acid labeling, hybridization, enzymatic assays, immunoprecipitation, gel shift assays, 2D gel electrophoresis	
119	<p>Six (6) bottles Minimum Essential Medium Eagle (MEM Alpha (α))</p> <p>500 mL/ bottle; Alpha Modification, With ribonucleosides, L-glutamine, deoxyribonucleosides and sodium bicarbonate, liquid, sterile-filtered, suitable for cell culture; expiration/shelf-life of at least one year upon delivery</p>	
120	<p>One (1) bottle Thidiazuron</p> <p>BioReagent, powder, suitable for plant tissue culture, 25mg/bottle</p> <p>With Safety Data Sheet (SDS)</p>	
121	<p>Six (6) bottles Dulbecco s Modified Eagle s Medium (DMEM)</p> <p>500 mL/bottle; Low glucose;</p> <p>With 1000 mg/L glucose, L-glutamine, and sodium bicarbonate, liquid, sterile-filtered, suitable for cell culture, expiration/shelf-life of at least one year upon delivery</p>	
122	<p>Two (2) bottles Ethylenediaminetetraacetic acid, Trypsin-EDTA solution</p> <p>500ml/bottle, suitable for cell culture experiment;</p> <p>With Safety Data Sheet (SDS)</p>	
123	<p>One (1) kit qPCR-Master Mix</p> <p>300 reactions, contains random hexamer and oligo-dT primers, dNTPs, RNase Inhibitor, and</p>	

	<p>Reverse Transcriptase; with gDNA remover; 5x RT Master Mix no RT control;</p> <p>expiration/shelf-life of at least 1 year upon delivery; frozen when transported</p> <p>cDNA Master Mix with gDNA remover;</p> <p>suitable for the detection of low abundance mRNAs; reagents should be frozen when transported for delivery</p>	
124	<p>One (1) kit qPCR Master Mix</p> <p>One-Step qRT-PCR Master Mix Kit For gene expression analysis, gene knockdown validation; contains 1000 x 20ul reactions; with 50X ROX high and low reference dyes (separate vials), 10mM dUTP and 50X RT mix</p> <p>compatible with all qPCR machine;</p> <p>Expiration/shelf-life of at least 1 year upon delivery; frozen when transported</p>	
125	<p>Two(2) bottles Isopropanol</p> <p>Molecular Laboratory Grade</p> <p>DNase/RNase and protease free</p> <p>For DNA Extraction</p> <p>1L/Bottle</p>	
126	<p>Two (2) bottles Sodium Dodecyl sulfate</p> <p>SDS 20%, molecular lab grade, 500g/bottle, powder</p> <p>With Safety Data Sheet (SDS)</p>	
127	<p>Twenty (20) bottles Acrylamide</p> <p>40% acrylamide/bis-acrylamide, 29:1 (3.3% crosslinker), 500ml/bottle</p> <p>With Safety Data Sheet (SDS)</p>	
128	<p>Three (3) bottles Temed</p> <p>100ml/bottle for Polyacrylamide Gel Electrophoresis</p>	

	With Safety Data Sheet (SDS)	
129	Two (2) bottles Ammonium Persulfate For molecular biology, suitable for electrophoresis, ≥98%, 100g/bottle, mol grade With Safety Data Sheet (SDS)	
130	Two (2) bottles Ethylenediaminetetraacetic acid, EDTA, Disodium salt Molecular Biology Grade, Ultrapure For DNA Extraction 500g/bottle With Safety Data Sheet (SDS)	
131	Two (2) bottles Sodium chloride 500g/bottle, molecular grade With Safety Data Sheet (SDS)	
132	Five (5) carbouy Ethyl Alcohol 95%, Technical grade, 20L/carbuoy	
133	Two (2) bottles Chloroform Molecular Laboratory Grade For DNA Extraction 4L/bottle, AR With Safety Data Sheet (SDS)	
134	Two (2) bottles Ammonium Persulfate For molecular biology, suitable for electrophoresis, ≥98%, 100g/bottle, mol grade With Safety Data Sheet (SDS)	
135	Two (2) bottles Sodium Hydroxide 500g/bottle, AR, pellets With Safety Data Sheet (SDS)	

136	Two (2) bottles Boric Acid Analytical Grade, 1kg/bottle With Safety Data Sheet (SDS)	
137	Two (2) bottles Xylene Cyanol 50g/bottle, powder/crystal form, Dye content ≥75% With Safety Data Sheet (SDS)	
138	Three (3) bottles Tris Base ultrapure grade, 500mg/bottle With Safety Data Sheet (SDS)	
139	Two (2) bottles Bromophenol blue molecular grade, 500mg/bottle With Safety Data Sheet (SDS)	
140	Ten (10) bottles Ethyl Alcohol 1gal/bottle,95%, technical grade	
141	Twenty (20) bottles DNA Ladder, 100ng/ul 1x1ml/tube Molecular-weight size marker, universal, at least 100 bp to 1,500 bp, ready to use	
142	Fifteen (15) Taq DNA Polymerase 1x100ul, 4x1m Stand-alone enzyme For Standard PCR Final product size: 5 kb or less Supplied at a concentration of 5U/ μL (500 units) Set includes 10X PCR buffer (200mM Tris-HCl pH 8.4, 500mM KCl); Magnesium Chloride (50mM)	

143	Five (5) bottles Dye Nucleic acid staining dye, 0.5ml/tube, 10,000x in water, absorbance: standard transilluminator compatible with denaturing and native agarose and polyacrylamide gels can be imaged with any standard imaging system, such as Bio-Rad Gel Doc	
144	Thirty (30) boxes PCR Master Mix 2x, 100 reactions, Includes Nuclease-Free water, premixed, ready to use solution containing Taq DNA Polymerase, dNTPs, MgC12 and reaction buffers (green color)	
145	Ten (10) sets Deoxynucleoside Triphosphate, dNTP solution set, 100mm, 4x25umol Highly pure (>99% triphosphate) 10mM each nucleotide	
146	Thirty (30) boxes PCR Master Mix 2x, 100 reactions, Includes Nuclease-Free water, premixed, ready to use solution containing Taq DNA Polymerase, dNTPs, MgC12 and reaction buffers (colorless)	