



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	60 CD
70.	Gel/PCR Purification Kit	kit	3	75,000.00	CBC	
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	carbony	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
		<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>
1	<p>Five (5) packs PCR Plates</p> <p>96-well; skirted; 50 pcs/pack</p>	
2	<p>Five (5) packs Microcentrifuge Tube</p> <p>1.5ml</p> <p>polypropylene, withstand up to 14000RCF, sterile maximum recovery prosted cap, snap lock, clear, RNase-/DNase-free, Nonpyrogenic, conical bottom 500pcs/pack</p>	

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> <ul style="list-style-type: none"> -flat cap, -tubes with caps sealed full-length; insertion cap ensures tight fit, eliminates sample evaporation -Certified RNase-/DNase-free -non-pyrogenic -non-sterile -polypropylene -conical bottom -1000 pcs/pack 	
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.	
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	

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

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

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

	5x Green PCR Buffer, 4pcs/pack, 20ml	
86	<p>Two (2) bottles Sodium chloride</p> <p>500g/bottle, AR</p> <p>With Safety Data Sheet (SDS)</p>	
87	<p>Two (2) bottles 2-Propanol</p> <p>4 liters/bottle</p> <p>ACS grade</p>	
88	<p>Two (2) bottles Agarose, Low EEO</p> <p>500g /bottle, for electrophoresis</p> <p>With Safety Data Sheet (SDS)</p>	
89	<p>One (1) bottle Ammonium Persulfate</p> <p>Free-flowing; ACS reagent, greater or equal to 98%; 500g per bottle, mol grade</p> <p>With Safety Data Sheet (SDS)</p>	
90	<p>One (1) bottle Calcium chloride</p> <p>Dihydrate AR, 500g /bottle</p> <p>With Safety Data Sheet (SDS)</p>	
91	<p>Three (3) pieces Absolute Ethanol,</p> <p>2.5L</p> <p>Formula: C₂H₅OH</p> <p>MW: 46.07 g/mol.</p> <p>Boiling Pt: 78.3°C (1013 hPa)</p> <p>Melting Pt: (-117°C)</p> <p>Density: 0.7895 g/cm³ (20°C)</p> <p>Flash Pt: 12°C (closed cup)</p> <p>Storage Temperature: Ambient.</p>	
92	<p>Five (5) bottles DNA Ladder</p>	

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

	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	

	<p>Plant tissue culture agar, microbiology grade, 500g/bottle</p> <p>With Safety Data Sheet (SDS)</p>	
114	<p>Three (3) pieces/ Microbial Culture</p> <p>Aspergillus oryzae, Staphylococcus aureus, Clostridium perfringens</p>	
115	<p>One (1) kit cDNA synthesis kit</p> <p>contains random hexamer and oligo-dT primers, dNTPs, RNase Inhibitor, and Reverse Transcriptase;</p> <p>250 reactions, expiration/shelf-life of at least 1 year upon delivery; frozen when transported</p>	
116	<p>Two (2) kits cDNA Synthesis Kit</p> <p>300 reactions, contains random hexamer and oligo-dT primers, dNTPs, RNase Inhibitor, and Reverse Transcriptase;</p> <p>expiration/shelf-life of at least 1 year upon delivery; frozen when transported</p>	
117	<p>Two (2) bottles Fetal Bovine Serum</p> <p>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</p> <p>With Safety Data Sheet (SDS)</p>	
118	<p>One (1) bottle RNA, DNA, Protein Extraction Reagent</p> <p>200 mL per bottle</p> <p>;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</p>	

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

136	<p>Two (2) bottles Boric Acid</p> <p>Analytical Grade, 1kg/bottle With Safety Data Sheet (SDS)</p>	
137	<p>Two (2) bottles Xylene Cyanol</p> <p>50g/bottle, powder/crystal form, Dye content $\geq 75\%$ With Safety Data Sheet (SDS)</p>	
138	<p>Three (3) bottles Tris Base</p> <p>ultrapure grade, 500mg/bottle With Safety Data Sheet (SDS)</p>	
139	<p>Two (2) bottles Bromophenol blue</p> <p>molecular grade, 500mg/bottle With Safety Data Sheet (SDS)</p>	
140	<p>Ten (10) bottles Ethyl Alcohol</p> <p>1gal/bottle, 95%, technical grade</p>	
141	<p>Twenty (20) bottles DNA Ladder,</p> <p>100ng/ul 1x1ml/tube Molecular-weight size marker, universal, at least 100 bp to 1,500 bp, ready to use</p>	
142	<p>Fifteen (15) Taq DNA Polymerase</p> <p>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)</p>	

143	<p>Five (5) bottles Dye</p> <p>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</p>	
144	<p>Thirty (30) boxes PCR Master Mix</p> <p>2x, 100 reactions, Includes Nuclease-Free water, premixed, ready to use solution containing Taq DNA Polymerase, dNTPs, MgC12 and reaction buffers (green color)</p>	
145	<p>Ten (10) sets Deoxynucleoside Triphosphate, dNTP solution set, 100mm, 4x25umol</p> <p>Highly pure (>99% triphosphate) 10mM each nucleotide</p>	
146	<p>Thirty (30) boxes PCR Master Mix</p> <p>2x, 100 reactions, Includes Nuclease-Free water, premixed, ready to use solution containing Taq DNA Polymerase, dNTPs, MgC12 and reaction buffers (colorless)</p>	