

TECHNICAL SPECIFICATION FOR:

UPLB-S-081-10-19, SUPPLY AND DELIVERY OF BRANDED VARIOUS CHEMICALS AND CHEMICAL PRODUCTS

DATE OF PREBID CONFERENCE:

Wednesday, 18 September 2019 10:30 AM

DEADLINE FOR SUBMISSION OF BIDS:

Wednesday, 02 October, 2019 1:15 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION	
1	1	10,12-PENTACOSADIYNOIC ACID,					
		analytical grade reagent,					
		solid powder,					
		> 97%,					
		25 grams per bottle.					
	2	50X TRIS-ACETATE (EDTA) TAE,					
		1L per bottle					
	3	ACETONE,					
		AR,					
		4Liters per bottle					
	4	ACETONE,					
		AR,					
		2.5Liters per bottle					
	5	ACETONE,					
		Technical grade,					
1Liter per bottle							

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	6	ACETONITRILE,					
		HPLC grade,					
		4 Liters per bottle					
	7	ACTINOMYCETE ISOLATION AGAR,					
		powder,					
		500 grams per bottle					
	8	ACTIVATED CHARCOAL,					
		acid-washed,					
		plant cell culture tested,					
		500grams per bottle.					
9	AGAR,						
	powder,						
	500 gram per bottle,						
	microbiological use						
10	AGAROSE,						
	molecular biology grade,						
	low EEO,						

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		25 grams per bottle.				
	11	AGAROSE, analytical grade, 100g per bottle				
	12	AGAROSE, high electrophoretic mobility, for nucleic acid analytical and preparative electrophoresis, and protein electrophoresis, 500gram per bottle.				
	13	ALCOHOL 70%, denatured, 20 liters per cby				
	14	ALPHA-NAPHTHOL, ≥ 99.0%, 10g/bottle				
	15	ALUMINUM PHOSPHATE, Analytical grade,				

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		Appearance - white powder				
		Purity - 98%min,				
		500 grams per bottle				
	16	AMMUNIUUM SULFATE,				
		analytical grade,				
		powder				
		500g/bottle				
	17	API CH50 TEST KIT,				
		10 strips/ kit				
	18	API CH50L SUPPLEMENTARY MEDIUM,				
		10 x 10 mL/ set; d				
		etectable analytes Lactobacilli;				
		for determining carbohydrate metabolism of microorganisms;				
		for API identification;				
		Bacterial ID				
	19	BACTERIAL DNA MINIPREP KIT				
		includes cell lysis solution, nuclei lysis solution, protein precipitation solution, DNA rehydration solution, RNase solution;				

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		yields DNA ideal for downstream molecular biology applications				
	20	BACTERIOLOGICAL AGAR,				
		powder,				
		500 grams per bottle				
	21	BILE ESCULIN AGAR,				
		powder,				
		500 grams per bottle				
	22	BISMUTH SULFITE AGAR,				
		microbiological use,				
		500 g/bottle				
	23	BORIC ACID,				
		AR				
		500g/bot				
	24	BOVINE SERUM ALBUMIN,				
		white flakes form,				
		AR for biochemistry/biochemical.				

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	25	BROMOPHENOL BLUE , AR, 25 g per bottle				
	26	BROMTHYMOL BLUE, analytical reagent, 25 grams per bottle.				
	27	BRUCINE SULFATE 7-HYDRATE, AR 100 grams per bottle.				
	28	CALCIUM CARBONATE, Analytical Grade, 500 grams per bottle				
	29	CALCIUM CHLORIDE, purity:94%, appearance: white powder, analytical grade,				

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		500 grams per bottle.				
	30	CALCIUM CHLORIDE DIHYDRATE, analytical grade, white flakes or granular or powder, 500 grams per bottle.				
	31	CALCIUM PHOSPHATE, AR, 500 grams per bottle.				
	32	CALCIUM SULFATE DIHYDRATE, powder, 500 grams per bottle.				
	33	CESIUM CHLORIDE, AR 100 grams per bottle				
	34	CHLORAMPHENICOL,				

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		analytical grade,				
		25 grams per bottle.				
	35	CHLOROFORM,				
		AR,				
		4Liters per bottle				
	36	CHROME AZUROL S,				
		powder,				
		50% dye content,				
		analytical grade,				
		25grams per bottle				
	37	COLUMBIA AGAR,				
		powder,				
		500 grams per bottle				
	38	CORN STEEP LIQUOR,				
		500 ml per bottle				
	39	CORN STARCH,				

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		1 kilograms per pack				
	40	COCONUT PAIRING MEAL, grated, pressed and oil free coconut meat, 50 kg per sack				
	41	D-(+) GLUCOSE, analytical grade, powder, 500g/bottle				
	42	DE MAN, ROGOSA AND SHARPE (MRS) BROTH, powder, microbiological medium, 500g/bottle; Dextrose 20g/L, Bacteriological Peptone 10g/L, Beef Extract 8g/L, Sodium Acetate 5g/L, Yeast Extract 4g/L,				

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		Dipotassium Phosphate 2g/L,				
		AMMONIUM CITRATE 2G/L,				
		Tween 80 1g/L				
	43	DEAE-SEPHAROSE(DIETHYLAMINOETHYL-SEPHADEX)				
		Exclusion limit: ~2,000,000 Da,				
		100g				
	44	DEAE-SEPHAROSE(DIETHYLAMINOETHYL-SEPHAROSE)				
		Exclusion limit: ~4,000,000 Da,				
		100g				
	45	DEHYDRATED MEDIA,				
		BG 11,				
		microbiological use,				
		500g per bottle				
	46	DEOXYNUCLEOTIDE MIX, 10 MM,				
		Molecular biology reagent,				
		DNase and RNase none detected,				
		0.2 mL pack size;				

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		a premixed dNTP solution containing 10mM each of ultrapure dATP, dCTP, dGTP and TTP sodium salts in high quality molecular biology grade water,				
		purity of each dNTP: minimum 99%				
	47	DIACETYL,				
		100ml/Alu bottle,				
		0.99g/cc				
	48	DICHLOROMETHANE,				
		analytical grade reagent,				
		anhydrous,				
		>99.8 %				
		contain 40-150 ppm amylene as stbilizer,				
		1 liter per bottle.				
	49	DI-POTASSIUM HYDROGEN PHOSPHATE,				
		analytical grade,				
		500 grams per bottle.				
	50	DISODIUM EDTA,				
		AR,				
		250 grams per bottle				

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	51	DI-SODIUM HYDROGEN ORTHOPHOSPHATE, Analytical grade, 500grams per bottle.				
	52	DL-MALIC ACID, analytical grade, 500 grams per bottle				
	53	DNA EXTRACTION KIT, 50presp per box				
	54	DNA ISOLATION KIT, genomic, for bacteria and fungi, spin column, bashing beads, 50 reactions				
	55	DNA ISOLATION KIT, bacteria,				

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		50 preps				
	56	DNA ISOLATION KIT, plant, 50 preps				
	57	DNA LADDER 1KB, ready to load, compatibility: agarose gel; product, 50ug, component 1kb DNA ladder mixed with 1ml 6x, v olume 1ml:100 uses per vial.				
	58	DNA LOADING DYE, 5 tubes per box, 6x concentration, one tube contains bromophenol blue & xylene cyanol FF a box				
	59	DNA MOLECULAR WEIGHT LADDER, 100bp plus (100-600bp), ready to use,				

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		500ul				
	60	DNA MOLECULAR WEIGHT LADDER, 1kb plus (500-1000 bp), ready to use, 500ul				
	61	DNTP MIX, 10MM, Mol. Bio reagent grade, 0.2ml per vial				
	62	DNTPS, MIX AQUEOUS SOLUTION CONTAINING DATP, DCTP, DGTP AND DTTP, 10mM final conc., 0.25ml				
	63	EOSIN METHYLENE BLUE AGAR, 500 grams per bottle				
	64	EPOFIX RESIN, EM Grade, 1 liter per bottle.				

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	65	ERYTHRITOL, white crystalline powder, melting point 118 ~ 122, pH 5.0 ~ 7.0, moisture ≤0.20%, E. coli - Negative, salmonella - Negative, Food grade				
	66	ERYTHROMYCIN, Bioreagent, 5g/bottle				
	67	ETHANOL ABSOLUTE 2.5 Liter per bottle.				
	68	ETHANOL, 95%, 20L/cby, Technical Grade				

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	69	ETHANOL, 96%,				
		AR,				
		4 liters per bottle.				
	70	ETHANOL,				
		Absolute,				
		4L/bottle,				
	71	ETHANOL,				
		Analytical grade,				
		2.5L/bottle				
	72	ETHYL ACETATE,				
		Analytical Grade,				
		4 liter per bottle				
	73	FERRIC CITRATE,				
		analytical grade,				
		500grams per bottle.				
	74	FERROUS SULFATE,				

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		92-102 %, MW 278.0, 500 g per bottle				
	75	FERROUS SULFATE HEPTAHYDRATE, analytical grade, 500 grams per bottle.				
	76	FERROUS SULFATE, green color, analytical reagent, 500grams per bottle.				
	77	FLUOROCULT AGAR, microbiological use, 500 grams per bottle				
	78	FOLIN-CIOCALTEAU'S PHENOL REAGENT, 2N, 500mL/bottle, AR				

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	79	<p>FORMIC ACID,</p> <p>Analytical Grade,</p> <p>> 95%,</p> <p>100 ml per bottle</p>				
	80	<p>FRUCTOSE,</p> <p>analytical grade,</p> <p>500mg per bottle</p>				
	81	<p>FUNGAL DNA MINIPREP KIT (50 PREPS PER KIT);</p> <p>includes cell lysis solution, nuclei lysis solution, protein precipitation solution, DNA rehydration solution, RNase solution;</p> <p>yields DNA ideal for downstream molecular biology applications</p>				
	82	<p>NUCLEIC ACID STAIN;</p> <p>10000x in water,</p> <p>for electrophoresis,</p> <p>0.5 ml/vial,</p> <p>red dye solution in water;</p> <p>equivalent or better in sensitivity compared to ethidium bromide;</p> <p>0.5 ml or 500 µl per tube,</p>				

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		stable at room temperature for at least 1 year				
	83	GELRITE, plant cell culture tested powder, 250 grams per bottle.				
	84	GIBBERELIC ACID, analytical reagent, 5g per bottle				
	85	GLACIAL ACETIC ACID , analytical reagent, 2.5 liter per bottle				
	86	GLUCOSE, Analytical grade, 500grams per bottle.				
	87	GLUCOSE, Technical Grade, 500 grams per bottle				

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	88	GLUCOSE, Technical Grade, 25 kilograms per pack				
	89	GLYCERINE, analytical grade, 2.5liter per bottle				
	90	GRAM-STAINING SET, 4-step; 4 x 250 mL kit; Components of the kit: OXALATE CRYSTAL VIOLET, SOLUTION (colorizer), LUGOL (fixating agent, DECOLORIZER ACETONE ETHANOL (decolorizer), SAFRANIN SOLUTION (colorizer); plastic tray				
	91	HEXADECYLTRIMETHYLAMMONIUM BROMIDE, ≥98% assay, cationic, granules or flakes with white color, 100g/bottle				
	92	HPLC WATER,				

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		analytical grade,				
		4 liter per bottle				
	93	HYDROCHLORIC ACID,				
		Concentrated,				
		Analytical Reagent,				
		2.5L/bottle,				
	94	HYDROGEN PEROXIDE,				
		30%,				
		AR,				
		1 liter per bottle.				
	95	INDOLE ACETIC ACID,				
		analytical grade,				
		5g per bottle				
	96	INDUSTRIAL SALT (ROCK SALT)				
		for water softening,				
		50 kg/bag				

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	97	IMMERSION OIL FOR MICROSCOPY, 250 ml per bottle.				
	98	IRON (III)CHLORIDE HEXAHYDRATE, analytical grade, anhydrous, powder 500g/bottle				
	99	IRON (II) SULPHATE HEPTAHYDRATE, analytical grade, 500 grams per bottle.				
	100	ISOBUTANOL, colorless, analytical grade, 4 liters per bottle				
	101	ISP 4 STREPTOMYCES MEDIA, 500 grams per bottle.				

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	102	ISP2 STREPTOMYCES MEDIA,				
		500 grams per bottle.				
	103	LACTIC ACID 85%,				
		1000ml/bot				
	104	LACTIC ACID AR,				
		1Liter per bottle				
	105	LANTHANUM CHLORIDE,				
		AR				
		500g/bot				
	106	LR WHITE RESIN,				
		EM grade,				
		500 gram per bottle				
	107	L-TRYPTOPHAN,				
		reagent grade,				
		≥98% (HPLC) assay, 25grams per bottle				

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	108	LURIA BERTANI BROTH,				
		microbiological use,				
		500 g/bottle				
	109	MAGNESIUM CHLORIDE,				
		analytical grade,				
		500g/bottle				
	110	MAGNESIUM SULFATE,				
		analytical grade				
		500g				
	111	MAGNESIUM SULFATE HEPTAHYDRATE,				
		analytical grade,				
		powder				
		250g/bottle				
	112	MALIC ACID,				
		500 grams per bottle,				
		molecular weight - 134.09 g/mol				

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	113	MALT EXTRACT, Reagent Grade; for media use, 500 grams per bottle				
	114	MALTODEXTRIN, food grade, 1kg per pack				
	115	MALTOSE, analytical grade, 100mg per bottle				
	116	MANGANESE SULFATE, analytical reagent, 500 grams per bottle.				
	117	MANGANESE SULFATE MONOHYDRATE, pink crystals appearance, analytical grade,				

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		500 grams per bottle.				
	118	MANGANESE SULFATE, AR 500g per bottle				
	119	MCFARLAND STANDARD, 6 ampoules per pack				
	120	MERCURIC SULFATE, analytical grade 125grams per bottle.				
	121	MERCURY(II) CHLORIDE, analytical grade, 500 grams per bottle.				
	122	METHANOL, analytical grade, 2.5 L per bottle				

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	123	METHANOL,					
		analytical grade,					
		4 liters per bottle					
	124	METHANOL,					
		HPLC Grade,					
		4 liters per bottle					
	125	MOL. BIO. GRADE WATER,					
		500ml per bottle					
	126	MOLECULAR WEIGHT MARKER, DNA,					
		100ng/mL,					
		1 ml per vial or tube					
	127	MOLECULAR WEIGHT PROTEIN					
standard mixture (12,000-78,000 Da MW range),							
1mL per vial							
128	MRS AGAR,						
	microbiological use,						

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		500 grams per bottle.				
	129	MRS BROTH FOR MICROBIOLOGY, 500grams per bottle.				
	130	MUELER HINTON BROTH, for microbiology, 500g/btl				
	131	NUCLEIC ACID GEL STAIN, 10,000x in water, 0.5ml per vial				
	132	NUTRIENT AGAR, microbiological use, 500grams per bottle				
	133	NUTRIENT BROTH, microbiological use, 500grams per bottle				

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	134	NYSTATIN,					
		Antifungal (100,000 units/ml),					
		oral suspension,					
		12 ml per bottle.					
	135	OLIGONUCLEOTIDE PRIMERS,					
		molecular biology reagent,					
		25 nm scale,					
		desalted,					
		PCR-grade					
	136	OLIGONUCLEOTIDE PRIMERS,					
		molecular biology reagent,					
		25 nm scale,					
desalted,							
20 nucleotide base							
137	OLIGONUCLEOTIDE PRIMERS,						
	molecular biology reagent,						
	25 nm scale, desalted,						

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		60 nucleotide (nt) base				
	138	PALCAM AGAR, microbiological use, 500 g/bottle				
	139	PCR MIX, good for 200 reaction, ready to use 2X PCR mix, with antibody mediated hot start, PCR mix should contain Taq polymerase, dNTP and buffer, 1 set/pack,				
	140	PCR PRIMERS P50.00/base ITS-1 (5'-TCC GTA GGT GAA CCT GCG G-3') ITS-4 (5'-TCC TCC GCT TAT TGA TAT GC-3')				
	141	PCR PRIMERS P50.00/base JSM_LIP1a 5' ACAAATTCCTGGGATCAAGAG 3'				

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		JSM_LIP1b 5' TTCCGACTTTGCTGTTCCAG 3'				
	142	PCR PRIMERS				
		P50.00/base				
		JSM_LIP2a 5' TTCCGACTTTGCTGTTCCAG 3'				
		JSM_LIP2b 5' ATAATACTGCTTACAAGACCAAG 3'				
	143	PCR PRIMERS				
		P50.00/base				
		JSM_LIP6a 5' TTAAACCTGGTGCCAAAGCTG 3'				
		JSM_LIP6b 5' TCGATGCCCTGGTGGTGAAC 3'				
	144	PCR PRIMERS				
		P50.00/base				
		NL1 (5'-GCATCAATAAGCGGAGGAAAAG-3')				
		ITS-4 (5'-GGTCCGTGTTCAAGACGG-3')				
	145	PCR PRIMERS				
		P50.00/base				
		RDT1354-BsphF				
		5' TAAAGTAGGATCATGAATAAATTATATATTG 3'				

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		RDT1354-HisR5' CGTCGACTTATTGGTGATGATGGTGATGCTGAGGAGATTTTCAGA 3'				
	146	PCR PRIMERS				
		P50.00/base				
		RMCR-2F				
		5' CGGCTTCGACACGATCACTA 3'				
		RMCR-2R				
		5' GCGACAGGAGCGATTGAAC 3'				
	147	PCR SUPERMIX,				
		4 tube per box,				
		one box contains Mg2+, dNTPS and recombinant Taq DNA Polymerase				
	148	PENICILLIN-STREPTOMYCIN,				
		Bioreagent grade,				
		100ml per bottle				
	149	PEPSIN,				
		lyophilised (salt-free),				
		1g/bottle,				

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	150	PEPTONE ,					
		microbiological use,					
		500 g per bottle					
	151	PEPTONE,					
		from casein and tryptic digest,					
		for microbiology grade,					
		500g/ bottle					
	152	PERCHLORIC ACID,					
		analytical grade,					
		70%,					
		1L/bottle					
	153	PGEMTEASY VECTOR SYSTEM:					
20 reactions per box,							
kit contains pGEMTEasy vector 1x1.2ug 50ng/ul, control insert DNA 1x12uL, 2x rapid ligation buffer 1x 200 uL and T4 DNA ligase 1x100u							
154	CALIBRATION (PH) BUFFER 10						
	1Liter per bottle						

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	155	CALIBRATION (PH) BUFFER 4				
		1Liter per bottle				
	156	CALIBRATION (PH) BUFFER 7				
		1Liter per bottle				
	157	PLASMID DNA ISOLATION KIT,				
		mini prep,				
		50 reactions per pack				
	158	PLATE COUNT AGAR,				
		for microbiology,				
		500 grams per bottle				
	159	P-NITROPHENYL PALMITATE,				
		analytical grade,				
		5g per bottle				
	160	POLYSEED,				
		50pcs per bottle				

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	161	POTASSIUM CHLORIDE,				
		99.0-100.50%,				
		500g/bottle,				
		ACS reagent				
	162	POTASSIUM CHLORIDE,				
		analytical grade,				
		powder,				
		500g/bottle				
	163	POTASSIUM DIHYDROGEN ORTHOPHOSPHATE,				
		500 gram per bottle				
	164	POTASSIUM HYDROXIDE,				
		Pellet				
		500g/bot,				
		analytical reagent				
	165	POTASSIUM IODIDE				
		analytical grade, 10grams per bottle				

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	166	POTASSIUM IODIDE, analytical reagent, 500grams per bottle				
	167	POTASSIUM PHOSPHATE MONOBASIC, ≥ 99.0%, 500 grams per bottle, suitable for cell culture				
	168	POTASSIUM SODIUM TARTRATE TETRAHYDRATE, 500 grams per bottle, ACS reagent 99%				
	169	POTASSIUM SULFATE, analytical grade, 500 gram per bottle				
	170	POTASSIUM, PHOSPHATE (DIBASIC), analytical reagent,				

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		500grams per bottle				
	171	POTASSIUM, PHOSPHATE (MONOBASIC), analytical reagent, 500 grams per bottle				
	172	POTATO DEXTROSE AGAR, 500g/bottle, granuled				
	173	POTATO DEXTROSE BROTH, microbiology use, 500 grams per bottle.				
	174	PRIMERS NUCLEOTIDES 495 base at 25/00 per base				
	175	PROPYLENE OXIDE, AR, 100 grams per bottle				

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	176	PROTEINASE K,				
		molecular biology grade,				
		from Tritirachium album,				
		100mg per bottle				
	177	PROTEINASE K,				
		10mg/bottle				
	178	QUERCETIN,				
		analytical grade,				
		100g per bottle				
	179	RIBONUCLEASE A FROM BOVINE PANCREAS,				
		100 mg				
		Solution of 50% glycerol, 10 mM Tris-HCL pH 8.0; Mol wt: 13.7 kDa,				
		concentration 20-40 mg/mL;				
		endonuclease and exonuclease none detected;				
		NICKase and Dnase none detected				
	180	SILVER SULFATE,				
		Powder,				

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		Analytical Reagent,				
		125g/bottle				
	181	SODIUM ACETATE,				
		analytical grade,				
		1 liter per bottle				
	182	SODIUM BICARBONATE,				
		analytical grade,				
		1000g/bottle				
	183	SODIUM CARBONATE,				
		≥ 99.5%,				
		500g/bottle,				
		ACS reagent				
	184	SODIUM CHLORIDE,				
		99%,				
		500g/bottle,				
		ACS reagent				

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	185	SODIUM DODECYL SULFATE , analytical reagent, 250 grams per bottle				
	186	SODIUM HYDROXIDE, analytical reagent, 500 grams per bottle				
	187	SODIUM HYDROXIDE, technical grade, 25kg/pack				
	188	SODIUM MOLYBDATE, analytical grade, 250 grams per bottle				
	189	SODIUM MOLYBDATE DIHYDRATE analytical grade, 500 grams per bottle				
	190	SODIUM NITRATE				

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		Analytical Grade,				
		500g per bottle				
	191	SODIUM PHOSPHATE,				
		dibasic,				
		analytical reagent,				
		500grams per bottle				
	192	SODIUM PHOSPHATE,				
		monobasic,				
		analytical reagent,				
		500grams per bottle				
	193	SODIUM SALICYLATE,				
		analytical reagent,				
		500grams per bottle				
	194	STERILE WATER FOR INJECTION,				
		1 liter per bottle,				
		twist off cap				

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	195	STEVIOSIDE,					
		analytical grade,					
		50mg per bottle					
	196	SUCROSE ,					
		analytical reagent,					
		500grams per bottle					
	197	SULFURIC ACID,					
		Concentrated,					
		Analytical Reagent,					
		2.5Liters per bottle					
198	TAQ DNA POLYMERASE (FROM THERMUS AQUATICUS; EXPRESSED IN E. COLI)						
	5U/μl,						
	molecular biology reagent,						
	with expiry of 8-12 months from delivery date,						
	500U/tube;						
	with the following: 10X Buffer without MgCl ₂ , 10X Buffer with MgCl ₂ , 25-50 mM MgCl ₂ ;						
	can also amplify fragments 6 kb to 20 kb,						
	higher sensitivity than conventional Taq polymerase						

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	199	TAQ POLYMERASE, high fidelity, 100ul (5U/ul)				
	200	TETRACYCLINE, ≥ 98.0%, 25g/bottle				
	201	TOLUENE, Analytical Grade, 4 liter per bottle				
	202	TRICHLOROACETIC ACID , AR, 100 grams per bottle, for protein extraction				
	203	TRISBASE, Analytical grade, 500grams per bottle				

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	204	TRIZMA HYDROCHLORIDE,				
		Reagent Grade,				
		>99.0% (titration),				
		crystalline;				
		Tris(hydroxymethyl) aminomethane hydrochloride;				
		molecular weight 157.60;				
		100 grams per bottle				
	205	TRYPHAN BLUE,				
		analytical grade,				
		250grams per bottle.				
	206	TRYPTIC SOY BROTH,				
		for microbiology,				
		500grams per bottle.				
	207	TRYPTIC SOY AGAR,				
		for microbiology,				
		500grams per bottle.				

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	208	TWEEN 80,				
		food grade,				
		500ml per bottle.				
	209	ULTRAPURE WATER,				
		1Liter per bottle,				
		PCR grade				
	210	ULTRAPURE WATER,				
		100 ml per bottle.				
	211	WATER,				
		HPLC Grade,				
		4 liters per bottle.				
	212	WATER,				
		Molecular Biology Grade,				
		2.5 liter per bottle.				
	213	XYLAN FROM BIRCHWOOD,				
		10grams per pack.				

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	214	XYLOSE, Analytical grade, 500grams per bottle.				
	215	YEAST EXTRACT, for microbiology grade, mixture of amino acids, peptides, water soluble vitamins and carbohydrates and can be used as additive for culture media, 500grams per bottle				
	216	YEAST MALT AGAR, microbiological use, 500 grams per bottle,				
	217	ZEOLITE, 50kg pack or sack, industrial grade				
	218	ZINC OXIDE,				

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		analytical grade,					
		powder					
		100grams per bottle					
	219	ZINC SULFATE,					
		analytical grade,					
		500 grams per bottle					
	220	ZIRCONIA BEADS, 0.5MM,					
		500 grams per pack					
	221	ZIRCONIA BEADS, 1.0 MM,					
		500 grams per pack					
2	1	E. COLI COMPETENT CELLS					
		E. coli, JM109 (rec A1, end A1, gyr A96, thi, hsd R17 (rk-, mk+), rel A1, SupE44, (lac-pro AB), [F', traD36, proAB, lacIq ZAM15,					
		0.2 mL/1 ampoule					
	2	FLUORESCINISOTHIOCYANATE, LABELING KIT					
		Sufficient For: Labeling and purifying					
		3 x 1 mg (2 mg/mL) of IgG or other proteins,					

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 OPENING OF BIDS:

Wednesday, 18 September 2019 10:30 AM
 Wednesday, 02 October, 2019 1:15 PM
 Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
		• NHS Fluorescein, 3 x 50 µg vial				
		• Borate Buffer, 1 mL				
		• Purification Resin, 5 mL				
		• Spin Columns, 6 each				
		• Collection Tubes, 12 each;10 reactions per kit				
	3	HYDROXYNAPHTOL BLUE,				
		color: blue-violet,				
		powder,				
		granules				
		Sustainability for calcium determination,				
		Molecular grade,				
		5g per bottle				
	4	MYELOMA CELL LINE P3/NS1/1-AG.4,				
		application: fusion partner,				
		culture medium: RPMI 1640 + 2mM glutamine +10 % FBS,				
		cell line origin: mouse myeloma,				
		non- Ig secreting,				
		suitable for mammalian cell culture,				
		0.5ml/vial				

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	5	NITROCELLULOSE MEMBRANE,				
		nucleic acid and protein transfer media,				
		0.45 µm pore size,				
		15 cm x 15 cm,				
		for blotting,				
		20 pcs./pk				
		6	X-GAL (5-BROMO-4-CHLORO-3-INDOLYL-BETA-D-GALACTOPYRANOSIDE),			
100mg/btl						
3	1	GRANULAR CHLORINE				
		70% Calcium Hypochlorite				
		30% Inert Ingredients				
4	1	GRANULAR CHLORINE				
		70% Calcium Hypochlorite				
		30% Inert Ingredients				
5	1	ACETONITRILE				
		HPLC Grade				

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		4L per bottle				
	2	PRIMARY SECONDARY AMINE				
		100g per bottle				
	3	PROFENOFOS				
		analytical standard				
		250 mg per bottle				

Note: Please fill-up applicable columns.

End-user:

 Signature over Printed Name

Signature of Representative: _____
 Name of Representative: _____
 Position: _____
 Company: _____
 Address: _____
 Telephone/ Fax: _____
 Email: _____