



ދިވެހިރާއްޖޭގެ ޤައުމީ ޔުނިވަރސިޓީ
މާލެ، ދިވެހިރާއްޖެ

މަޢުލޫމާތު ސުވާލު

ބިޔަފުޅު ސަރުކާރު: MNU-CA-PAMD/2020/60
 ޖަވާބު ދިނުމުގެ ތާރީޚު: 14 ޖަނުއަރީ 2020
 ސަފުޔާ ޖަވާބު ދިނުމުގެ ތާރީޚު: 23 ޖަނުއަރީ 2020
 ސަފުޔާ ޖަވާބު ދިނުމުގެ ތާރީޚު: 10:00 ޖަނުއަރީ 2020
 ސަފުޔާ ޖަވާބު ދިނުމުގެ ތާރީޚު: 23 ޖަނުއަރީ 2020
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1. ޖަވާބު ދިނުމުގެ ތާރީޚު: 23 ޖަނުއަރީ 2020
 ސަފުޔާ ޖަވާބު ދިނުމުގެ ތާރީޚު: 10:00 ޖަނުއަރީ 2020

2. ސަފުޔާ ޖަވާބު ދިނުމުގެ ތާރީޚު: 10:00 ޖަނުއަރީ 2020

#	Equipment / Description	Qty
Group one		
1	Bacterial culture: Escherichia coli	1 EA
2	Bacterial culture: Streptococcus pneumonia	1 EA
3	Bacterial culture: Staphylococcus aureus	1 EA
4	Bacterial culture: Klebsiella pneumoniae	1 EA
5	Bacterial culture: Proteus mirabilis	1 EA
6	Bacterial culture: Proteus vulgaris	1 EA
7	Bacterial culture: Salmonella typhi	1 EA
8	Bacterial culture: Salmonella paratyphi A	1 EA



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9	Bacterial culture: Salmonella paratyphi B	1 EA
10	Bacterial culture: Pseudomonas aeruginosa	1 EA
Group two		
1	The alkaline phosphatase (ALP) kit	2 kit (kit must be inclusive of control, Calibrator)
2	The aspartate aminotransferase (AST) test kit	2 kit (kit must be inclusive of control, Calibrator)
3	The alanine aminotransferase (ALT) test kit	2 kit (kit must be inclusive of control, Calibrator)
4	Total protein (TP) kit	2 kit (kit must be inclusive of control, Calibrator)
5	Albumin (ALB) kit	2 kit (kit must be inclusive of control, Calibrator)
6	Creatine kinase-MB (CK-MB) kit	2 kit (kit must be inclusive of control, Calibrator)
7	Glucose (glu) kit	2 kit (kit must be inclusive of control, Calibrator)
8	Bilirubin (bill T) Total	2 kit (kit must be inclusive of control, Calibrator)
9	Bilirubin (bill D) direct	2 kit (kit must be inclusive of control, Calibrator)
10	Urea	2 kit (kit must be inclusive of control, Calibrator)
11	Creatinine	2 kit (kit must be inclusive of control, Calibrator)
Group three		
1	Protein electrophoresis kit	2 Kit
2	Legal reagent kit (keto reagent)	2 Kit
3	Glucose reagent kit	2 Kit
4	Parafilm	1 Box
5	Albumin reagent with calibrator controls	2 EA
6	Protein reagent with calibrator controls	2 EA
7	Alkaline phosphatase reagent calibrator controls	2 EA
8	Sahli's hemoglobinometer kit	10 EA
9	Blood group ntisera kit	5 Kit
Group 4		
1	Isopropanol	100 ml x 2
2	2, 3, 5 - Triphenyl tetrazolium chloride	100 grams (4 x 25 grams)
3	Thiosulphate citrate bile salt sucrose agar	2 KG
4	Nitrophenol	02 bottle



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Group one - Antibiotic discs used for antimicrobial sensitivity testing:

1	Bacterial culture: Escherichia coli	1 EA
2	Bacterial culture: Streptococcus pneumonia	1 EA
3	Bacterial culture: Staphylococcus aureus	1 EA
4.	Bacterial culture: Klebsiella pneumoniae	1 EA
5.	Bacterial culture: Proteus mirabilis	1 EA
6.	Bacterial culture: Proteus vulgaris	1 EA
7.	Bacterial culture: Salmonella typhi	1 EA
8	Bacterial culture: Salmonella paratyphi A	1 EA
9.	Bacterial culture: Salmonella paratyphi B	1 EA
	Bacterial culture: Pseudomonas aeruginosa	1 EA



Group two – Reagents to use for biochemistry practical AUTOANALYZER LAOLA AND BIOBOSE
SPECTROPHOTOMETER

	PARAMETERS NAME	JUSTIFICATION	PRACTICL FOR MODULE	AMOUNT	Expire Date
1	The alkaline phosphatase (ALP) kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	this test to demonstrate bone and liver disease and enzyme function	Module: Cellular biomolecules Semester: one	2 Kit	2 years from receive
2	The aspartate aminotransferase (AST) test kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	this test to demonstrate liver disease and enzyme function	Module: Cellular biomolecules Semester: one	2 Kit	2 years from receive
3	The alanine aminotransferase (ALT) test kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	this test to demonstrate factors affecting liver function enzyme function	Module: Cellular biomolecules Semester: one	2 Kit	2 years from receive
4	Total protein (TP) kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	protein tests to measure the amounts of specific proteins and also to quantitative measures of biomolecules	Module: Cellular biomolecules Semester: one	2 Kit	2 years from receive
5	Albumin (ALB) kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	quantitative measures of biomolecules and to demonstrate renal function	Module: Cellular biomolecules, Renal Semester: one and three	2 Kit	2 years from receive
6	Creatine kinase-MB (CK-MB) kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	This test will be use for study of isoenzymes, MI for the students	Module: Cellular biomolecules Semester: one	2 Kit	2 years from receive
7	Glucose (glu) kit <ul style="list-style-type: none"> • Control • Calibrator reagent 	Test done to estimate blood glucose level	Module: Metabolism Semester: one	2 Kit	2 years from receive
8	Billirubin (bill T) Total <ul style="list-style-type: none"> • Control 	Test done to show the students	Module: GIT Semester: 4TH	2 Kit	2 years from receive



	<ul style="list-style-type: none"> • Calibrator reagent 	conditions like jaundice, anemia			
9	Billirubin (bill D) direct <ul style="list-style-type: none"> • Control • Calibrator reagent 	Test done to show the students conditions like jaundice, anemia	Module: GIT Semester: 4th	2 Kit	2 years from receive
10	Urea <ul style="list-style-type: none"> • Control • Calibrator reagent 	Test to demonstrate renal function and liver function	Module: Renal Semester: 3rd	2 Kit	2 years from receive
11	Creatinine <ul style="list-style-type: none"> • Control • Calibrator reagent 	Test to demonstrate renal function and liver function	Module: Renal Semester: 3rd	2 Kit	2 years from receive

Group three - Reagents and filters, mask used in microbiology

1	Protein electrophoresis kit	for electrophoresis	05 kit
2	Legal reagent kit	-	02 kit
3	Parafilm	-	01 box
4	Albumin reagent with calibrator and controls	to do the albumin test	02 kit
5	Protein reagent with calibrator and controls	to do protein test	02 kit
6	Alkaline phosphatase reagent calibrator controls	to do alkaline phosphatase test (determine quantity of alkaline phosphatase in serum or plasma in vitro)	02 kit
7	Alkaline phosphatase reagent calibrator controls		2 EA
8	Shahli's hemoglobinometer kit		10 EA
9	Blood group ntisera kit		05 kit



Group 4 - chemicals, reagents and kits used for biochemistry and microbiology

	ITEM	DESCRIPTION	QUANTITY
1.	Isopropanol	Isopropanol is a polar organic solvent that is widely used in chemistry, biochemistry and molecular biology. Industrial applications include its use in antifreezes	100 ml
2	2, 3, 5 - Triphenyl tetrazolium chloride	White to yellow crystals or powder Used for microbiology motility test Catalogue: HiMedia MB188-25G	100 grams (4 x 25 grams)
3	Thiosulphate citrate bile salt sucrose agar	-	02 KG
4	Nitrophenol	Nitrophenols include two chemicals, 2-nitrophenol and 4-nitrophenol, used mainly coloring chemicals,	02 bottle
5	P-nitrophenyl phosphate	p-Nitrophenyl Phosphate (PNPP) is a non-proteinaceous, non-specific substrate used to assay protein, alkaline and acid phosphatases. ..The assay can be used for the quick analysis of the protein phosphatase activity under any non-standard conditions.	02 bottle
6	Biuret Reagent	-	02 bottles
7	Glycine buffer solution (0.1M)	Glycine is an intermediate in the synthesis of a variety of chemical products	02 bottle
8	Deionized water	It is used for less sensitive applications such as qualitative analyses, glassware rinsing, and water baths.	10 bottles
9	Barium chloride or barium chloride dihydrate	-	500 grams
10	Sulphuric acid	99.9%	2 liters
11	Blood Agar Base	-	5 bottles
12	Bactoscrub	-	2 bottles
13	DPX mounting medium	250 ML	2 bottles
14	Xylene for mounting	Colorless or white to off-white crystals or powder Catalogue: HiMedia GRM412-500G	500 grams



Group 5 - Solutions for physiology

1.	Adrenaline Solution	Strength: 1 mg/mL (1:1000) *Used for triple response test	04 liters
2.	Histamine solution	-Histamine dihydrochloride -Empirical Formula (Hill Notation) C ₅ H ₉ N ₃ · 2HCl -Molecular Weight 184.07 -≥99.0% (AT) (1:10000) *Used for triple response test	04 liters
3.	Locke's solution	CaCl ₂ 0.24g KCl 0.42g NaHCO ₃ 0.1g NaCl 9.0g In 100ml distilled water *Locke's solution used for triple response test	04 liters

Note: For those items no additional details/specification is provided, the item will be evaluated based on the brand and additional information stated in the quotation and bid documentation

