



CMCVIROEQAS  
 (Under the aegis of Indian Association of Medical Microbiologists)  
 PT Unit, Department of Clinical Virology, Christian Medical College,  
 Vellore-632004, Tamil Nadu  
 Email: viroeqas@cmcvellore.ac.in Phone: 0416-2283455

PC-1034

15<sup>th</sup> SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT

PANEL: BBVS

CMCVIROEQAS ID.

V0283

Opening Date: 01-11-2021

Result Receiving Date: 12/11/2021

Distribution No:

S321

Specimen #	Intended Result			Your Result		
	HIV	HBsAg	HCV	HIV	HBsAg	HCV
S0132109	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0132110	Negative	Negative	Positive	NEGATIVE	NEGATIVE	POSITIVE
S0132111	Positive	Negative	Negative	POSITIVE	NEGATIVE	NEGATIVE
S0132112	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
Your Score				8/8 (100%)	8/8 (100%)	8/8 (100%)

Scoring System

Qualitative Results	Score
Concordant Result	2
Intermediate/Indeterminate	1
Discordant Result	0

Page 1 of 6

PT Unit, Department of Clinical Virology  
 CHRISTIAN MEDICAL COLLEGE, VELLORE

*Deshpande*  
 12/04/22 at 3.00 pm

*S.N.Jangle*  
 12-04-2022 at 3:30 pm

**Dr. Nikhil S. Deshpande**  
 Associate Professor  
 Department of Pathology  
 Dr. Balasaheb Vikhe Patil  
 Rural Medical College, Loni  
 Parbhani (Dh), Loni Bk, 413736

Incharge  
 CCL- Biochemistry  
 PMT, RMC, Loni

**Dr. S. N. JANGLE**

Prof. & H.O.D. Biochemistry  
 Rural Medical College, PMT  
 Tal. Rahata, Dist. A'Nagar-413736



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Cumulative Report of this cycle:

Total Number of specimens you received : 4  
Number of markers reported as not examined : 0  
Specimen # not used for analysis : 0  
Number of Specimens Reported Late for analysis : 0  
Your cumulative score for the specimens you reported: 24 out of the possible total of 24  
Total Number of participants for BBVS : 536  
Total Number of Participants who turned in their results : 505

Standard Deviation Index (SDI)

Performance of the participating Laboratories	HIV Ag/Ab	HBsAg	HCV-Ab
Mean score of all Laboratories	8.0	8.0	8.0
Standard Deviation	0.3	0.1	0.2
Your Laboratory SDI	0	0	0

SDI of  $\pm 3$  and above indicates possible poor performance



PC 1034

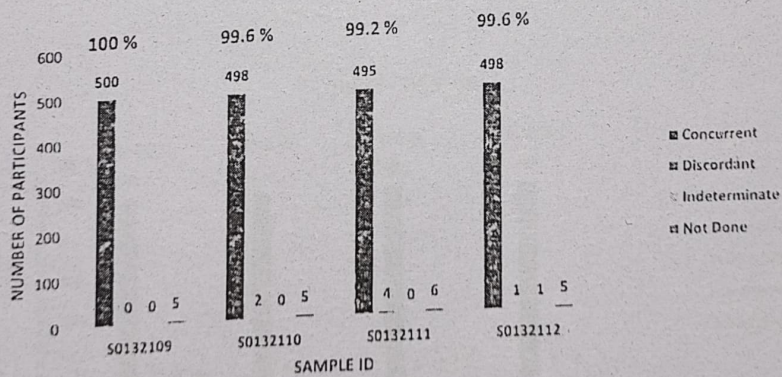
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Participants who reported all analyzed specimens accurately

Marker	Number of Participants with all four specimen's results	Percentage of Participants with concordant result from all four specimens
HIV	499	98.4
HBsAg	503	99.6
HCV-Ab	500	99.4

**Performance Graph**

**BBVS - HIV Ag/Ab**



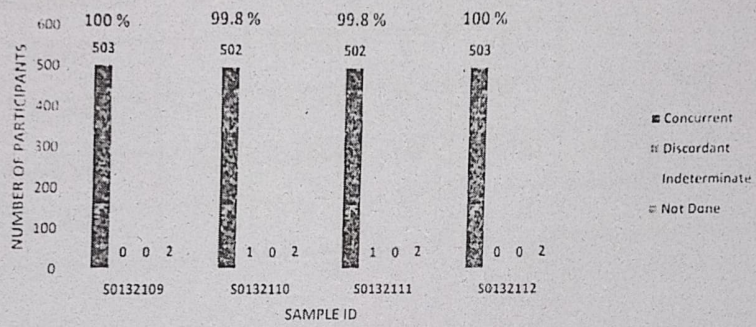


CMCVIROEQAS

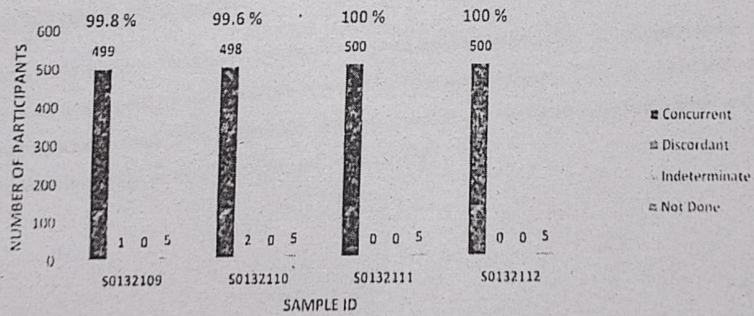
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PC 1024

BBVS - HBsAg



BBVS - HCV Ab





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	HIV Ag/Ab		HBsAg		HCV-Ab	
	n	Discordant	n	Discordant	n	Discordant
Chemiluminescence	229	2 (0.9%)	219	0	224	1 (0.4%)
ELFA	11	1 (9.1%)	11	0	13	0
ELISA	77	1 (1.3%)	75	0	78	2 (2.6%)
Rapid Assay	182	4 (2.2%)	198	2 (1.0%)	185	0
Not Done	6	-	2	-	5	-

**Comments:**

This PT program is a simultaneous and continuous scheme. Participants are scored based on qualitative result. If more than 30% of the laboratory report discrepant result that sample will not be considered for analysis.

**Confidentiality of the results:**

The results are kept confidential between the participant and the provider. The results can be revealed to a regulatory body with written consent from the participant. However, in exceptional circumstances, results from a particular participant will be provided to the regulatory body and the participant will be notified of this action in writing.



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PC 10.34

**Assigned Value:**

Assigned value is determined using multiple assays/multiple testing of the same analyte. The proficiency testing material is a pooled lyophilized plasma sample prepared by following institutional proficiency testing standard operating protocol (PT-SOP) by trained staff. None of the work related to testing, preparation and packaging of sample is subcontracted. The homogeneity of the PT material is determined using multiple testing. The stability of the testing material is determined by assessing the reactivity of the specimen till the closing date. The homogeneity and stability of the materials were found satisfactory as per ISO13528:2015.

**Standard Deviation Index (SDI):**

Standard deviation index is used to analyze your laboratories performance relative to the other participating laboratories. The SDI is calculated for each parameter or marker separately using the formula

$SDI = (\text{Your score} - \text{interlaboratory mean score}) / \text{interlaboratory standard deviation of the score}$

Enquiries: For queries, please contact CMCVIROEQAS coordinator at the email [viroeqas@cmcvellore.ac.in](mailto:viroeqas@cmcvellore.ac.in) For all communications, please use your CMCVIROEQAS LAB ID and Distribution Number.

Name of CMCVIROEQAS Coordinator

Signature

Dr. Rajesh Kannangai

Department of Clinical Virology

Report Dispatch Date: 28-12-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

Page 6 of 6

PT Unit, Department of Clinical Virology  
CHRISTIAN MEDICAL COLLEGE, VELLORE



PC-1033

109<sup>th</sup> IAMM EQAS Microbiology: Bacteriology/ Serology  
CMC MICRO EQAS

Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu  
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OCTOBER 2021

109<sup>th</sup> EQAS EVALUATION REPORT

MEMBER ID: M 0 3 7 2

Marks Obtained: 69.5/71 (97.9%)

**OCTOBER 2021 / BACTERIOLOGY SMEARS**

Question: Carry out the appropriate staining procedure and document the relevant observation.  
Provide the Impression or probable organism seen (AS ASKED)  
Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

PLEASE NOTE: The inaccuracies in the participant report resulting in deduction of marks has been underlined in the expected smear report.

Exercise Number	Question	Expected Report	Evaluation		
SM1	Please carry out a Gram stain on the given fixed smear prepared from a BLOOD culture specimen obtained from a 74-year-old gentleman presenting with high grade fever and chills following prostrate surgery (TURP).	Description of Organism/s (2marks): Many Gram-positive spherical/oval cocci (1) arranged in pairs, long and short chains (1)	0	0.5	1
		Probable organism (1 mark): <i>Streptococcus</i> spp/ <i>Enterococcus</i> spp (1)	1.5	2	2.5
		Where can the blood culture specimen be stored if there is a delay in transport? (1 mark): Ideally Incubator / room-temperature (1)	3	3.5	4
		What is the upper limit of storing the specimen outside of these conditions? (No marks allotted): As mentioned by the manufacturer			

SM2	Please carry out a Gram stain on the given fixed smear prepared from an isolate from a THROAT swab received from a 2-year-old girl who has not received her routine vaccinations in the last 2 years. She presented with fever, sore throat, bilateral facial swelling with stridor.	Description of Organism/s (2marks): Many Gram-positive bacilli (1) club-shaped in X and V / cuneiform arrangements (1) Probable organism (1 mark): <i>Corynebacterium diphtheriae</i>	0	0.5	1
		What precaution are to be taken in the lab while handling the specimen (1mark) [a] Specimen handling following standard precautions in a BSC Type 2 A2 [b] Personnel should be adequately vaccinated and have a minimal of diphtheria antibody level of at least 0.1 IU/ml. [c] If unvaccinated and exposed should begin antimicrobial prophylaxis if specimen is culture or PCR positive	1.5	2	2.5
			3	3.5	4
SM3	Please carry out a Gram stain on the given fixed smear prepared from a URINE specimen of a 22-year-old pregnant patient in her third trimester with a history of increased frequency of micturition for 2 days.	Please shade all the boxes that are relevant to your findings: Pus cells: <input type="checkbox"/> Many <input type="checkbox"/> Moderate <input type="checkbox"/> Few <input checked="" type="checkbox"/> Occasional <input checked="" type="checkbox"/> None (0.5 mark) Epithelial cells: <input checked="" type="checkbox"/> Many <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Few <input type="checkbox"/> Occasional <input type="checkbox"/> None (0.5 mark) Organism burden: <input checked="" type="checkbox"/> Many <input type="checkbox"/> Moderate <input type="checkbox"/> Few <input type="checkbox"/> Occasional  <input checked="" type="checkbox"/> Gram positive cocci in pairs, chains and clusters (0.25) <input checked="" type="checkbox"/> Gram positive bacilli (0.5) <input checked="" type="checkbox"/> Gram negative bacilli (0.25) <input checked="" type="checkbox"/> Gram negative coccobacilli (0.5) <input checked="" type="checkbox"/> Gram positive budding yeast like organisms (0.5)  Impression/ Comments regarding the specimen: Improperly collected specimen (0.5 mark)  What recommendation may be advised by the lab? : Suggest repeat appropriately collected mid-stream clean catch specimen (0.5 mark)	0	0.5	1
			1.5	2	2.5
			3	3.5	4



OCTOBER 2021 / BACTERIOLOGY CULTURE:

Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the appropriate techniques for your exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given below. Please refer the attached evaluation format for details on the criteria for evaluation. A 'partially correct' or 'incorrect' component of the participant report which has resulted in a deduction of marks has been indicated in the evaluation report below.

"REMOVED FROM EVALUATION" refers to a test that has not been evaluated for ALL participants. The explanation can be found in the EQAS statistics and the EQAS explained documents.

CUSI - Isolated from a LUNG BIOPSY of a 24-year-old woman with fever, breathlessness and bilateral pleural effusions.  
 FINAL IDENTIFICATION: *Staphylococcus aureus*

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓		0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect		
Cefoxitin 30µg	≥ 22	≤ 4	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Chloramphenicol 30µg	≥ 18	≤ 8	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Co-trimoxazole 1.25/23.75µg	≥ 16	≤ 2/38	Susceptible			REMOVED FROM EVALUATION	
Linezolid 30µg	≥ 21	≤ 4	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Erythromycin 15µg	≤ 13	≥ 8	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Clindamycin 2µg	D-test POSITIVE		Resistant	✓		-1 0 1 (2)	mE/ ME/ VME

Q23 Isolated from a TISSUE BIOPSY specimen taken from a 21-year-old man with hemophilia and an infected hematoma of his right knee.

FINAL IDENTIFICATION: *Escherichia coli*

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓		0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect	10 marks	Error
Ceftazidime 30µg	≤17	≥16	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Ceftriaxone 30µg	≤19	≥4	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Co-trimoxazole 1.25/23.75µg	≤10	≥4/76	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Levofloxacin 5µg	≤16	≥2	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Gentamicin 10µg	≤12	≥16	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME

CUS: Isolated from a FAECES specimen of a 6-year-old boy with a 2-day history of abdominal pain and frequent passage of scanty stools with mucous and blood.

FINAL IDENTIFICATION: *Shigella flexneri* serotype 2

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓		0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect		
Ampicillin 10µg	≤13	≥32	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Cefotaxime 30µg	≤22	≥4	Resistant		✓	-1 0 1 (2)	mE/ ME/ VME
Co-trimoxazole 1.25/23.75µg	≥16	≤2/38	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Ciprofloxacin 5µg	≤21	≥1	Resistant	✓		-1 0 1 (2)	mE/ ME/ VME
Azithromycin 15µg	≥16	≤8	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Meropenem 10µg	≥23	≤1	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME

**OCTOBER 2021 / SEROLOGY**

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

Parameter	Your Interpretation		Intended Result			Max Marks	Your Score
	Correct	Incorrect	STO	STH	Interpretation		
SE1	Widal*	✓	Negative	Negative	Not Suggestive of Enteric Fever / Typhoid Fever	2	2

\*Expected value is determined by the Proficiency Testing Provider (PTP).

Parameter	Your Result	Your Value	Intended Result	Method	Robust Mean	Robust SD	Range	Z & Z'	Max Marks	Your Score
SE2	ASO	Negative	Negative	Latex Agglutination (n-450)	Not Applicable				2	2
SE3	CRP	Positive	Positive	Latex Agglutination (n-220)	34.0754	21.1902	6 to 192	-0.5	2	2

**Disclaimer:**

This is a confidential document and subject to the rules of confidentiality as described by the ISO 17043:2010 standard.

MEMBER ID: **M 0 3 7 2**

SM1	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained	
4	4	3.5	17	17	18	2	2	2	69.5	97.9%
4	4	4	17	17	19	2	2	2	Maximum marks = 71	

*[Signature]*

Dr. Rani Diana Sahni  
Scientific Co-ordinator  
Report Dispatch Date: 15.03.2022

*[Signature]*

Dr. John A Jude Prakash  
Quality Manager

*[Signature]*

Dr. V. Balaji  
PT Co-ordinator

..... End of Report .....



JUNE 2021

108<sup>th</sup> EQAS EVALUATION REPORT

MEMBER ID:

M 0 3 7 2

Marks Obtained: 70.5/71 (99.3%)

JUNE 2021 / BACTERIOLOGY SMEARS

Question: Carry out the appropriate staining procedure and document the relevant observation.  
 Provide the Impression or probable organism seen (AS ASKED)  
 Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

PLEASE NOTE: The inaccuracies in the participant report resulting in deduction of marks has been underlined in the expected report.

Exercise Number	Question	Expected Report	Evaluation		
			0	0.5	1
SM1	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen obtained from a 3-year old child presenting at a rural hospital facility with high grade fever and altered sensorium. Mother has defaulted on child's vaccinations.	Presence of host cells & debris (1 mark): Many pus cells	0	0.5	1
		Description of Organism/s (2marks): Many (0.5) pleomorphic (0.5) Gram negative bacilli (1)	1.5	2	2.5
		Probable organism (1 mark): <i>Hemophilus</i> spp	3	3.5	4
SM2	Please carry out a Gram stain on the given fixed smear prepared from an endotracheal aspirate of a 43-year old man admitted in ICU for 5 days with SARS-CoV2..	Presence of host cells & debris (1mark): Moderate pus cells	0	0.5	1
		Description of Organism/s (2marks): Many (0.5) Gram negative (1) cocco-bacilli (0.5)	1.5	2	2.5
		Probable organism (1 mark): <i>Acinetobacter</i> spp	3	3.5	4

SM3	Please carry out a Gram stain on the given fixed smear prepared from a sputum specimen of an 82-year old COVID-negative gentleman seen in casualty with fever and breathlessness.	Pus cells: Occasional Epithelial cells: Many  <input checked="" type="checkbox"/> Gram positive cocci in clusters <input checked="" type="checkbox"/> Gram positive cocci in pairs and chains <input checked="" type="checkbox"/> Gram positive bacilli in palisade arrangement <input checked="" type="checkbox"/> Gram negative cocci in pairs and clusters <input checked="" type="checkbox"/> Gram negative bacilli <input type="checkbox"/> Gram negative bacilli in palisade arrangement	0	0.5	1
			1.5	2	2.5
			3	3.5	4
		Impression/ Comments (1 mark): Excessive salivary contamination. Improperly collected sputum specimen.			
		Name the grading system you used to grade the sputum specimen: not graded			

**JUNE 2021 / BACTERIOLOGY CULTURE:**

Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the appropriate techniques for each exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given below.

Please refer the attached evaluation format for details on the criteria for evaluation. A 'partially correct' or 'incorrect' component of the participant report which has resulted in a deduction of marks has been indicated in the evaluation report below.

"REMOVED FROM EVALUATION" refers to a test that has not been evaluated for all participants. The explanation can be found in the EQAS statistics and the EQAS explained documents.

CU 1; Isolated from a URINE specimen of a 63-year-old patient with recurrent urinary tract infections.

FINAL IDENTIFICATION: *Enterococcus faecalis*

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓		0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect		
Ampicillin 10µg	≥17	≤8	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
High Level gentamicin 120µg	=6	>500	RESISTANT	✓		-1 0 1 (2)	mE/ ME/ VME
Nitrofurantoin 300µg	≥17	≤32	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Vancomycin 30µg	≥17	≤4	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Teicoplanin 30µg	≥14	≤8	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Linezolid 30µg	≥23	≤2	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME

CU2: Isolated from a SPUTUM specimen of a 45-year man admitted in ICU with Ventilator associated pneumonia.

FINAL IDENTIFICATION: *Pseudomonas aeruginosa*

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
Final identification	✓		0 0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect	10 marks	Error
Ceftazidime 30µg	≥18	≤8	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Levofloxacin 5µg	≤14	≥4	RESISTANT	✓		-1 0 1 (2)	mE/ ME/ VME
Amikacin 30µg	≥17	≤16	Susceptible	✓		-1 0 1 (2)	mE/ ME/ VME
Piperacillin-Tazobactam 100/10µg	≥21	≤16/4	Susceptible			REMOVED FROM EVALUATION	
Imipenem 10µg	≤15	≥8	RESISTANT	✓		-1 0 1 (2)	mE/ ME/ VME
Meropenem 10µg	≤15	≥8	RESISTANT	✓		-1 0 1 (2)	mE/ ME/ VME



CU3: Isolated from a BLOOD culture specimen of a 42-year old gentleman in renal failure with urosepsis.  
**FINAL IDENTIFICATION: *Escherichia coli***

Identification details	Reported	Not reported	Evaluation (marks)
Mitroscopy (Gram stain + Motility)	✓		0 0.5 (1)
Silent culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 (4)
✓ <b>Final identification</b>	✓		0 0.5 1 1.5 (2)

Susceptibility report	EXPECTED REPORT			PARTICIPANT REPORT		MARK 10 marks	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect		
Cefotaxime 30µg	≥22	≥4	Resistant	✓		-1 0 1 (2)	mE/ME/VNE
Cefazolin 30µg	≤17	≥16	Resistant	✓		-1 0 1 (2)	mE/ME/VNE
Amikacin 30µg	≤14	≥64	Resistant	✓		-1 0 1 (2)	mE/ME/VNE
Piperacillin-Tazobactam 100/10µg	≤17	≥128/4	Resistant	✓		-1 0 1 (2)	mE/ME/VNE
Minozocline 30µg	≥16	≤4	SUSCEPTIBLE				
Meropenem 10µg	≤19	≥4	Resistant	✓		-1 0 1 (2)	mE/ME/VNE

REMOVED FROM EVALUATION

**JUNE 2021 SEROLOGY**

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

	Parameter	Your Result	Your Value	Intended Result	Method	Robust Mean	Robust SD	Range	Z & Z' score	Max Marks	Your Score
SE1	RA	Negative	Not Reported	Negative	Latex Agglutination (n-389)	NA	NA	NA	NA	2	2
SE2	CRP	Positive	24 mg/L	Positive	Latex Agglutination (n-206)	32.2239	19.8230	6 to 192	0.4	2	2

NA: Not Applicable

	Parameter	Your Result	Intended result	correct	Incorrect	Max Marks	Your Score	
SE3	RPR/VDRL	Non-Reactive	Non-Reactive	✓		2	2	
	TPHA	NOT DONE						
	Syphilis ELISA							

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MEMBER ID: **M 0 3 7 2**

SM1	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained	
4	4	3.5	19	17	17	2	2	2	70.5	99.3%
4	4	4	19	17	17	2	2	2	Maximum marks = 71	

*[Signature]*  
 Dr. Rani Diana Saboi  
 Scientific Co-ordinator  
 Report Dispatch Date: 30.11' 2021

Dr. John A Jude Prakash  
 Quality Manager

*[Signature]*  
 Dr. V. Balaji  
 PT Co-ordinator

..... End of Report .....