



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

14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT

PANEL: Dengue Serology

CMCVIROEQAS ID.:

Opening Date: 09-08-2021

Result Receiving Date: 25/8/21

Distribution No:

Specimen #	Intended Result			Your Result		
	IgM	IgG	NSI	Dengue IgM	Dengue IgG	Dengue NSI
S0322145	Positive	Positive	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322146	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322147	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322148	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
Your Score				6/8 (75%)	6/8 (75%)	8/8 (100%)

Scoring System

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



PC - 1034

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Email: viroeqas@cmcvellore.ac.in Phone: 0416-2283455

Cumulative Report of this cycle:

Total Number of specimens you received : 4
Specimen # not used for **Dengue panel analysis** : 0
Number of markers reported as not examined : 0
Number of Specimens Reported Late for analysis : 0
Your cumulative score for the specimens you reported : 20 out of the possible total of 24
Total Number of participants : 272
Total Number of participants who turned in their results : 248

Standard Deviation Index (SDI)

Performance of the participating Laboratories	Dengue IgM	Dengue IgG	Dengue NSI
Mean score of all Laboratories	7.5	7.2	8.0
Standard Deviation	1.0	1.2	0.3
Your Laboratory SDI	-1.5	-1	0

SDI of ± 3 and above indicates possible poor performance



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SDI of ± 3 and above indicates possible poor performance



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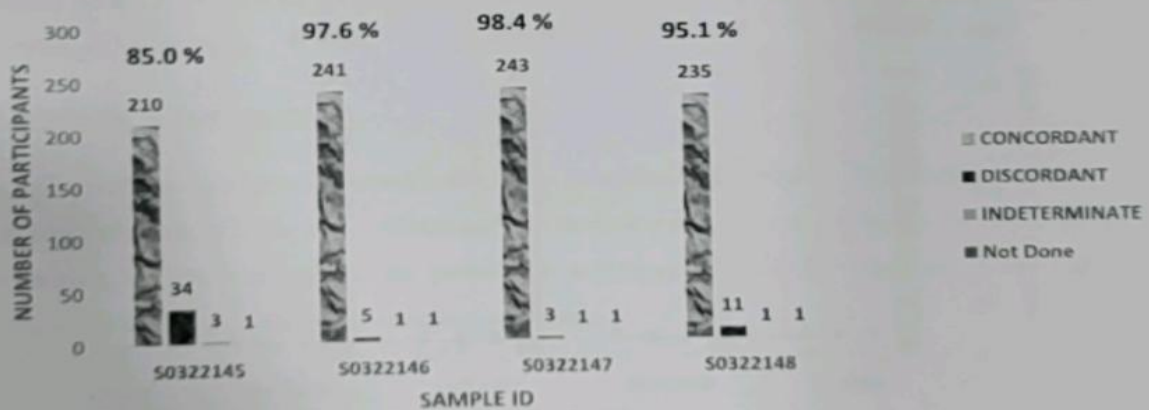
PC - 1034

Participants who reported all analyzed specimens accurately

Marker	Total number of Participants who reported all specimen results	Percentage of Participants with concordant result for all analyzed specimens
Dengue IgM	247	80.2
Dengue IgG	216	63.3
Dengue NS1	244	99.2

Performance Graphs

DENGUE - IgM

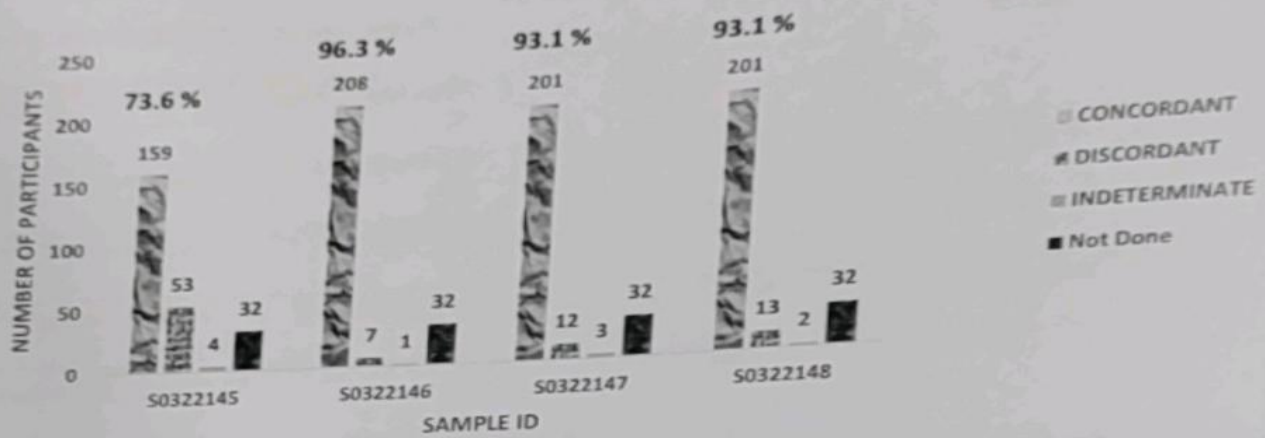




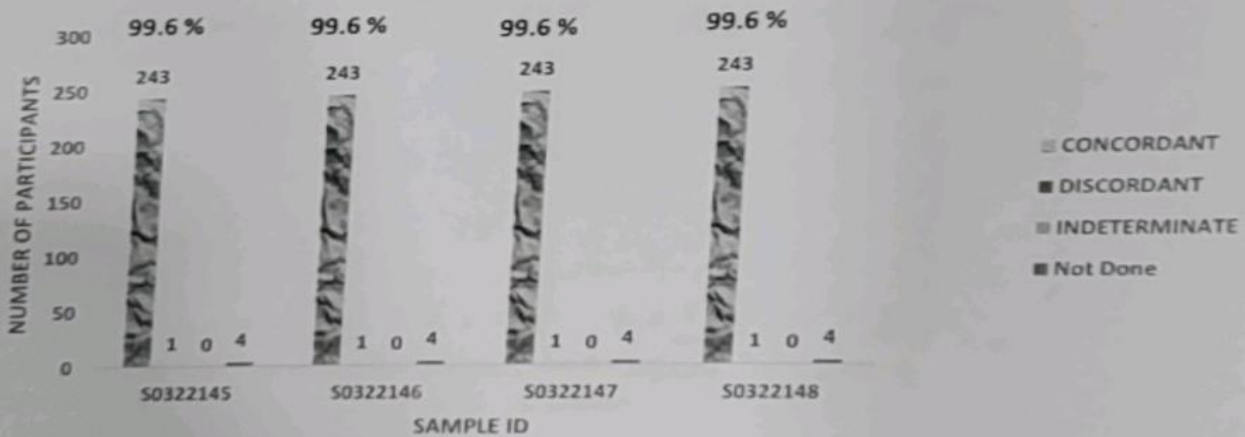
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DENGUE - IgG



DENGUE - NS1





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METHOD SUMMARY

	Dengue IgM		Dengue IgG		Dengue NSI	
	n	Discordant	n	Discordant	n	Discordant
RAPID ASSAY	82	32 (39.0%)	85	57 (67.1%)	95	1 (1.1%)
ELFA	2	0	1	1 (100%)	3	0
ELISA	163	17 (10.4%)	129	22 (17.1%)	146	3 (2.1%)
Outside scope of Lab	1	-	32	-	4	-
No Kit Information	-	-	1	-	-	-

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.

Assigned Value:

Assigned value is determined using multiple assays/multiple testing of the same analyte.



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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

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

Enquiries: For queries, please contact CMCVIROEQAS coordinator at the email
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: 21-10-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

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

The data in this CMCVIROEQAS reports are confidential



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14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT**PANEL: BBVS**CMCVIROEQAS ID.

Opening Date: 09-08-2021

Result Receiving Date: 25/8/21

Distribution No:

Specimen #	Intended Result			Your Result		
	HIV	HBsAg	HCV	HIV	HBsAg	HCV
S0122105	Negative	Positive	Negative	NEGATIVE	POSITIVE	NEGATIVE
S0122106	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0122107	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0122108	Positive	Negative	Negative	POSITIVE	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



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Cumulative Report of this cycle:

Total Number of specimens you received	:	4
Number of Specimens 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	:	485

Standard Deviation Index (SDI)

Performance of the participating Laboratories	HIV Ag/Ab	HBsAg	HCV-Ab
Mean score of all Laboratories	8.0	7.9	8.0
Standard Deviation	0.3	0.5	0.1
Your Laboratory SDI	0	0.2	0

SDI of ± 3 and above indicates possible poor performance



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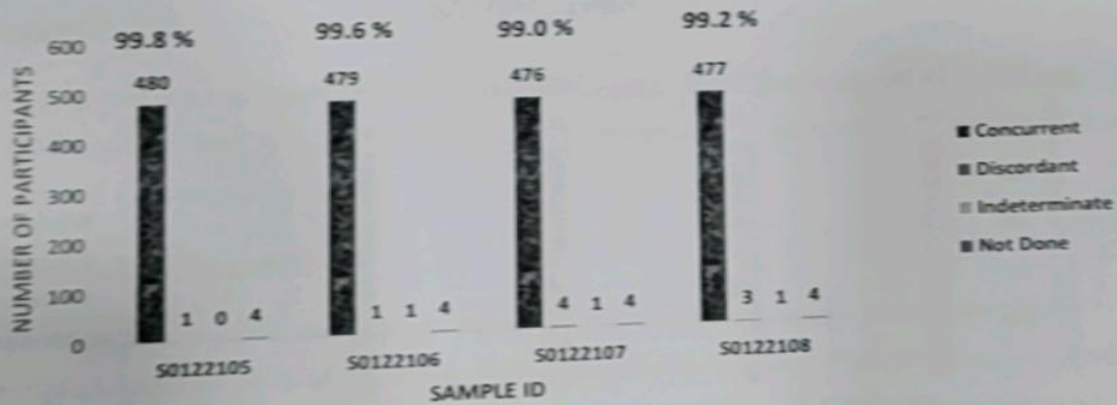
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Participants who reported all analyzed specimens accurately

Marker	Number of Participants with all four specimen's results	Percentage of Participants with concordant result from all four specimens
HIV	481	97.9
HBsAg	485	98.1
HCV-Ab	481	99.8

Performance Graph

BBVS - HIV Ag/Ab

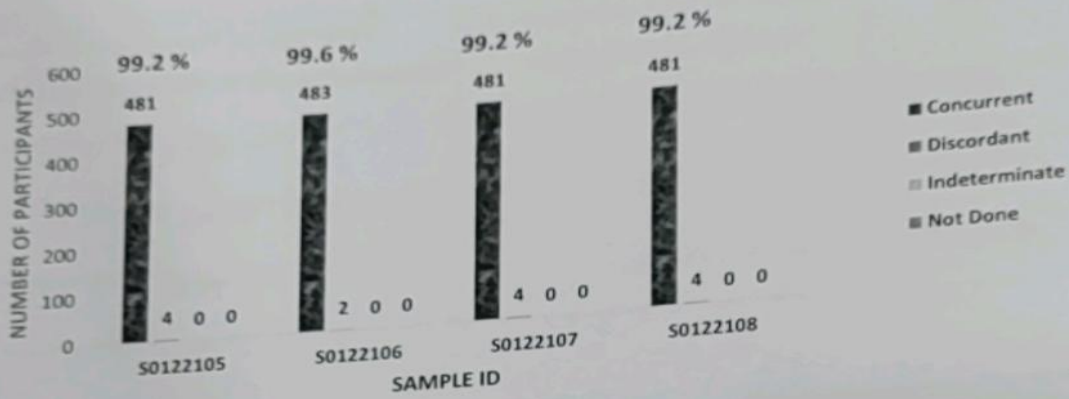




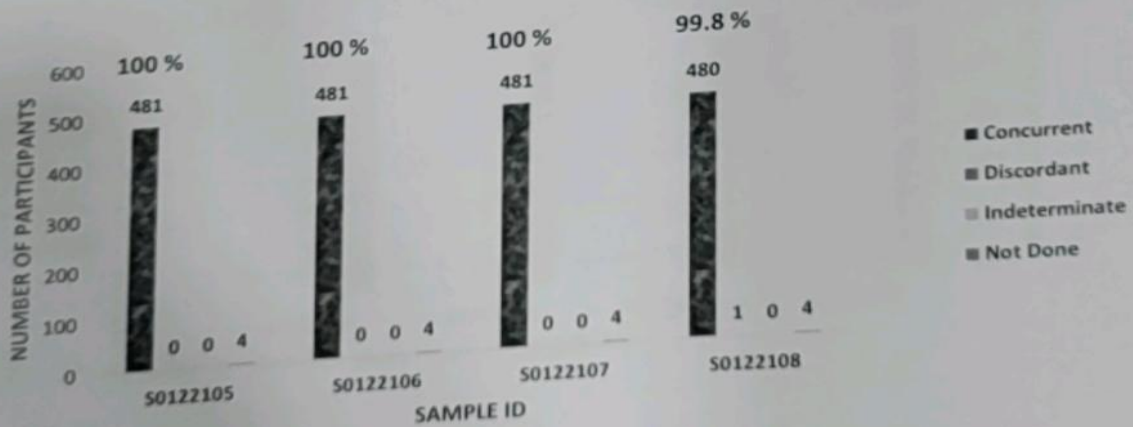
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BBVS - HBsAg



BBVS - HCV Ab





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	HIV Ag/Ab		HBsAg		HCV-Ab	
	n	Discordant	n	Discordant	n	Discordant
Chemiluminescence	210	4 (1.9%)	212	2 (0.9%)	211	0
ELFA	11	0	11	0	12	0
ELISA	80	2 (2.5%)	68	2 (2.9%)	78	1 (1.3%)
Rapid Assay	180	4 (2.2%)	194	5 (2.6%)	180	0
Not Done	4	-	0	-	4	-

Comments:

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Confidentiality of the results:

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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):

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

Enquiries: For queries, please contact CMCVIROEQAS coordinator at the email viroeqas@cmcvellore.ac.in 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: 18-10-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

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

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 & T' score	Max Marks	Your Score
SE1	RA	Negative	Negative	Turbidimetry (n-271)	10.7787	4.3006	0.09 to 133	-1.5	2	2
SE2	CRP	Positive	Positive	Turbidimetry (n-406)	70.5501	12.1574	0.76 to 822	0.2	2	2

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

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 9**

SM1	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained
4	4	3.5	19	14	17	2	2	2	67.5
4	4	4	19	17	17	2	2	2	Maximum marks = 71

Vibhakar

Dr. Rani Diana Sahni
Scientific Co-ordinator
Report Dispatch Date:30.10.2021

John

Dr. John A Jude Prakash
Quality Manager

V. Balaji

Dr. V. Balaji
PT Co-ordinator

..... End of Report

FEBRUARY 2021 / SEROLOGY

Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry

Peer group (n) = 392

Please refer the attached evaluation format for details on the criteria for evaluation

Parameter	Your Result	Your Value (mg/L)	Intended Result	Robust Mean	Robust SD	Range (mg/L)	Z & Z'	Max Marks	Your Score	
SE1	CRP	Negative	4.12	Negative	2.3108	1.1367	0.0 to 70.50	1.6	2	2
SE2	CRP	Negative	3.99	Negative	2.5183	1.0460	0.0 to 55.04	1.4	2	2
SE3	CRP	Positive	74.19	Positive	58.3223	11.0118	1.0 to 739.1	1.4	2	2

Disclaimer:

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MEMBER ID:

M 0 3 7 9

SMI*	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained
4	NE	3	13	17	16.5	2	2	2	59.5
4	NE	4	13	17	17	2	2	2	97.5%
									Maximum marks = 61

NE- Not Evaluated

SMI*: Species level identification cannot be determined based on smear findings.



108th TAMM EQAS Bacteriology Evaluation Report
 Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu
 Email: egas@cmcvellore.ac.in Phone: 0416-2282588
 NAHL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018



JUNE 2021

108th EQAS EVALUATION REPORT

MEMBER ID:

M 0 3 7 9

Marks Obtained: 67.5/71 (95.1%)

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 (1mark): Many pus cells Description of Organism/s (2marks): Many (0.5) pleomorphic (0.5) Gram negative bacilli (1) Probable organism (1 mark): <i>Hemophilus</i> spp	0	0.5	1	
			1.5	2	2.5	
			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 Description of Organism/s (2marks): Many (0.5) Gram negative (1) coeco-bacilli (0.5) Probable organism (1 mark): <i>Acinetobacter</i> spp	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	



106th IAMM EQAS Microbiology: Bacteriology/Serology
Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu
Email: eqas@cmvellore.ac.in Phone: 0416-2282588



NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018

DECEMBER 2020

106th EQAS EVALUATION REPORT

MEMBER ID:

M 0 3 7 9

Marks Obtained: 66/67(98.5%)

DECEMBER 2020 / 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		
SM1	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen of a 72-year-old gentleman presenting with high grade fever, headache and vomiting for one day.	Presence of host cells & debris (1 mark): Few pus cells Description of Organisms/ (2marks): Many (0.5) Gram positive (0.5) lanceolate shaped diplococci (1) Probable organism (1 mark): <i>Streptococcus pneumoniae</i>	0	0.5	1
			1.5	2	2.5
			3	3.5	4
SM2	Please carry out a Gram stain on the given fixed smear prepared from a THROAT specimen of a 6-year old child presenting with a sore throat and fever and malaise for 2 days.	Presence of host cells & debris (1mark): No pus cells Description of Organisms/ (2 marks): Many (0.5) Gram positive (0.5) slender club bacilli arranged Chinese letter pattern (1) along with few Gram positive bacilli in palisade arrangement. Possible organism (1 mark): <i>Corynebacterium spp</i>	0	0.5	1
			1.5	2	2.5
			3	3.5	4

CU3: Isolated as the predominant organism from an EXUDATE specimen of a left lower limb ulcer from a 63-year-old diabetic woman.
FINAL IDENTIFICATION: *Proteus mirabilis*

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)	Correct	Incorrect		
Co-trimoxazole	≥16	≤2/38	✓		-1 0 1 (2)	mE/ ME/ VME
Levofloxacin	≥21	≤0.5	✓		-1 0 1 (2)	mE/ ME/ VME
Piperacillin-Tazobactam	≥21	≤16	✓		-1 0 1 (2)	mE/ ME/ VME
Ertapenem	≥22	≤0.5	✓		-1 0 1 (2)	mE/ ME/ VME
Meropenem	≥23	≤1.0	✓		-1 0 1 (2)	mE/ ME/ VME

DECEMBER 2020 / 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 (mg/L)	Z & Z' score	Max Marks	Your Score
SE1 RA	Negative	2.8 IU/mL	Negative			Turbidimetry (n-245)	8.5538	4.1086	0.0 to 31.260	-1.4	2	2
SE2 WIDAL*	Correct	Correct	STO Negative	STH Negative	Interpretation Negative	Slide agglutination	Not Applicable				2	2
SE3 CRP	Positive	52.56 mg/L	Positive			Turbidimetry (n-330)	60.0593	10.4966	0.08 to 199.9	-0.7	2	2

RA: Rheumatoid Factor, CRP: C-reactive Protein. NA: Not Applicable. *Expected value is determined by the Proficiency Testing Provider (PTP).



Department of Clinical Microbiology, Bacteriology, Serology

IAMM EQAS Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu

Email: egas@cmvcllore.ac.in Phone: 0416-2282588

MICROBIOLOGY EXTERNAL QUALITY ASSESSMENT SCHEME
Under the aegis of Indian Association of Medical Microbiologists



JUNE 2019

NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018

102nd EQAS EVALUATION REPORT

MEMBER ID:

M	0	3	7	9
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Marks Obtained: 74.5 / 77 (96.8%)

JUNE 2019 / 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 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	
SMI	Please carry out a Gram stain on the given fixed smear prepared from a BLOOD culture of a 45year old gentleman with a history of low grade intermittent fever for 3 weeks and worsening breathlessness.	Organism: Gram positive spherical cocci arranged in pairs, short chains and predominantly long chains. (2) Impression and probable organism: <u>Case of PUO- Probable case of infective endocarditis. Probably caused by Streptococcus spp - Viridans Streptococcus. (2)</u>	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	
I2	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen of a 2 year old child with a history of high grade fever, irritability and vomiting.	Presence of host cells & debris: Many pus cells (1) Organism: Many Gram negative coccobacilli, short slender bacilli and long slender bacilli. [Pleomorphism seen] (2) Possible organism: Probably Hemophilus species (1)	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	

Method employed for detection C - reactive protein at your lab: Turbidimetry
 group (n) = 339

Please refer the attached evaluation format for details on the criteria for evaluation

Parameter	Your Result	Your Value (mg/L)	Intended Result	Robust Mean	Robust SD	Range (mg/L)	Z/Z'	Max Marks	Your Score	
SE1	CRP	Negative	2.39	Negative	2.9013	1.2276	0.0 - 43.92	-0.4	2	2
SE2	CRP	Negative	3.73	Negative	2.3069	1.2641	0.0 - 50.65	1.1	2	2
SE3	CRP	Positive	103.5	Positive	62.1031	14.8079	0.76 - 145	2.8	2	1.5

Test method employed for detection Antistreptolysin O (ASO) your lab: Latex Agglutination

Peer group (n) = 396

Please refer the attached evaluation format for details on the criteria for evaluation

Parameter	Your Result	Your Value (IU/mL)	Intended Result	Robust Mean	Robust SD	Range (IU/mL)	Z/Z'	Max Marks	Your Score	
SE1	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2
SE2	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2
SE3	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2

IAMM EQAS CMC

#	Payment receipt	PaymentDetails	Payment Date	Payment Image	Scheme	Tests	Status
1	1610438665 View Reciept	Payment Mode:- onlineBank:- PAYUTransaction Id:- 2021011200352627	12-01- 2021		Serology	HIV Ag/Ab, HBsAg, HCV Ab, Dengue IgM, Dengue IgG, Dengue NS1Ag	Verified
2		Payment Mode:- offlineUTR/NEFT:- DD REF. NO. 062113023127	29-01- 2019		Serology	HIV Ag/Ab, HBsAg, HCV Ab	Not- Verified

VIROEQAS PANELS AND ITS REGISTRATION FEE

S.No	Panel	Markers	No. of surveys/ challenges per survey	Cost in Rs / annum
1.	BBVS	HIV Ag/Ab, HBsAg HCV Ab	3 X 4	2800 + 18% GST=3304
2	HBV Serology	HBsAg HBeAg Anti HBsAg Total HBcAb Anti HBeAg	3 X 4	5000+ 18% GST =5900
3.	Dengue Serology	Dengue IgM Dengue IgG Dengue NS1	3 X 4	3000+ 18% GST= 3540
4.	Acute Hepatitis Serology	HEV IgM HAV IgM Anti-HBcIgM	3 X 4	3000+ 18% GST =3540
5.	HIV-1 RNA quantitative	HIV-1 RNA	2 X 2	9200+ 18% GST=10856
6.	HBV DNA quantitative	HBV DNA	2 X 2	9200+ 18% GST=10856
7.	HCV RNA quantitative	HCV RNA	2 X 2	9200+ 18% GST=10856
8.	CMV DNA quantitative	DNA	2 X 2	9200+ 18% GST=10856
9.	BBV Quantitative	HIV-1RNA HBV DNA HCV RNA	2 X 6	25000+ 18% GST=29500

For Queries Contact: E-mail : viroeqas@cmcvellore.ac.in or Phone : 0416-2283455 or 228 5662

IAMM EQAS CMC

Tier-1

Option	Test	Amount (Rs.)	GST Rate (%)	GST Amount (Rs.)	Total Amount (Rs.)
Basic Bacteriology & Serology	A. Bacteriology smear for staining and reporting B. Bacteriology culture for organism identification and antimicrobial susceptibility testing C. Serology (CRP / RF / RPR / WIDAL / ASO)	4200.00	18.00	756	4956

<input type="hidden" class="test_check" id="test_name32" value="A. Bacteriology smear for staining and reporting B. Bacteriology culture for organism identification and antimicrobial susceptibility testing C. Serology (CRP / RF / RPR / WIDAL / ASO)">

Tier - I start from Jan - 2021

107th — Feb-2021 — CRP

108th — June-2021 — RA Factor, CRP, VDRL

109th — Dec-2021 — ASO & Widal, CRP

109th Evaluation Report till the date not received

Tier 13 : Tier 1

CSV

PDF

Print





Dr Samatha
M0379
Micro-Biology

Code Number:- 01437

Dashboard

Panel

Tier 1

Select Marker

View Marker

Tier 2

Payments

Panel Result

Tier 1

Tier 2

Tier 1

CSV PDF Print

Option	Test	Amount (Rs.)	GST Rate (%)	GST Amount (Rs.)	Total Amount (Rs.)
<input type="checkbox"/> Basic Bacteriology & Serology	A. Bacteriology smear for staining and reporting B. Bacteriology culture for organism identification and antimicrobial susceptibility testing C. Serology (CRP / RF / RPR / WIDAL / ASO)	4200.00	18.00	756	4956

Total Amount :- 0.00

Create

Activate Windows

Go to Settings to activate Windows



109th IAMM EQAS Microbiology: Bacteriology / Serology
Department of Clinical Microbiology
Christian Medical College, Vellore-632004, Tamil Nadu



NABL ACCREDITED ISO / IEC 17043:2010, PC-1033

OCTOBER 2021

109th EQAS – SEROLOGY

MEMBER ID:

M0379

Last date for receiving reports: December 20th, 2021

Instructions:

1. Each individual serum sample to be reconstituted with 0.6ml of sterile distilled water / deionized water.
2. Please perform required tests and send your results as per the attached tabular format.
3. You are instructed to fill up each column; as this information will be used for assessing your performance.
4. **Do not use tick marks and encircle wherever necessary.**
5. Please perform only the test specified for the sample.
6. Please mention levels of C-reactive protein (CRP) in mg/L and Antistreptolysin O (ASO) in IU/ml
Note: Do not mention CRP in mg/dl

7. Separate sheets are provided for entering the results.

8. **Evaluation format for Serology:**

a. **Qualitative (2 marks for each serum)**

- > Result have to be given as Positive or Negative only
- > Correct interpretation: Full marks (2 marks)
- > Wrong Interpretation: Zero mark (0 mark)

b. **Semi quantitative / Quantitative (2 marks for each serum)**

1. **Interpretation (1 mark)**

- > Correct interpretation: one mark (1 mark)
- > Wrong Interpretation: Zero mark (0 mark)

2. **Values (1 mark)**

We will assess by robust analysis (as per ISO: 13528:2015) using participants results for different peer groups (Nephelometry, Turbidimetry, etc.,) and marking format as based on Z & Z' score, which is as given below.

Z & Z' score system for Values

Z & Z' Score	Category	Marks for values
≤ 2	Correct	1 mark
>2 but < 3	Partially correct	0.5 mark
≥ 3	Incorrect	0 mark

IMPORTANT!! All sera are potentially infectious. Adequate universal precautions to be used while handling the specimens
 Note: Do not use tick marks; encircle as necessary

Widal

SE1: Serum specimen from 45-year old patient with acute febrile illness of 5 days duration.

S No.	Subject	STO	STH	Interpretation
	SE1	< 1:80	< 1:80	Negative
	Your Normal Range	< 1:80		
	Method	Tube agglutination or <u>slide agglutination</u>		
	Name of the kit used	STAINED SALMONELLA Antigen set for widal test.		
	Manufacturer (Name, City, Country)	ARKRAY HEALTHCARE PVT LTD GUJARAT, INDIA.		
	Lot No.	4000025379		
	Expiry date of kit	19-12-2022		

IMPORTANT!! All sera are potentially infectious. Adequate universal precautions to be used while handling the specimens

Note: Do not use tick marks; encircle as necessary

Antistreptolysin O (ASO)

2: Serum specimen from 10-year old child with fever and sore throat for 3 days duration.

Subject	Antistreptolysin O (ASO)	
	Report	Value in (IU/mL)
SE2	Positive / <u>Negative</u>	< 200 IU/mL
Your Normal Range	< 200 IU/mL	
Method	<u>Qualitative</u>	<u>Latex agglutination</u>
	<u>Semi-Quantitative</u>	<u>Latex agglutination</u>
	Quantitative	Nephelometry / Turbidimetry / ELISA / CLIA/ Others:
Name of the kit used	RECKON	
Manufacturer (Name, City, Country)	RECKON DIAGNOSTIC PLTD VADODARA, INDIA	
Lot No.	2014765 DBL 050920	
Expiry date of kit	07/2022	
Automation used	Yes / <u>No</u>	
If yes, give details of Automation used	Model:	
	Manufacturer:	
	City:	Country:

IMPORTANT!! All sera are potentially infectious. Adequate universal precautions to be used while handling the specimens

Note: Do not use tick marks; encircle as necessary

C-reactive protein (CRP)

SE3: Serum specimen from 38-year old adult with acute fever of 4 days duration.

S. no	Subject	C-reactive protein (CRP)*	
		Report	Value in (mg/L)
1	SE3	<u>Positive</u> Negative	101 mg/L
2	Your Normal Range	≤ 0.6 mg/L.	
3	Method	Qualitative	Latex agglutination
		Semi-Quantitative	Latex agglutination
		<u>Quantitative</u>	Nephelometry / <u>Turbidimetry</u> / ELISA / CLIA / Others:
4	Name of the kit used	TURBODYNE CRP UV.	
5	Manufacturer (Name, City, Country)	Tulip diagnostics (P) LTD GOA, INDIA.	
6	Lot No.	262107.	
7	Expiry date of kit	April 2022.	
8	Automation used	<u>Yes</u> No	
9	If yes, give details of Automation used	Model: TURBODYNE Manufacturer: TULIP DIAGNOSTICS City: GOA Country: INDIA.	

* It is understood that the value mentioned is in mg/L only

Laboratory / Institution Name: PAEB HOSPITALS

Date of Dispatch:

Authorized signatory

Signature:

Name:

[Signature]
Dr. D.V. SOMATHIA