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:** M 0 3 7 2

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

Approved By

Incharge
CCL- Biochemistry
PMT,RMC,Loni

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
1	SE1	NEGATIVE	NEGATIVE	NEGATIVE
2	Your Normal Range	NA		
3	Method	Tube agglutination or (slide agglutination)		
4	Name of the kit used	TYDAL		
5	Manufacturer (Name, City, Country)	Corol Clinical Systems TULIP DIAGNOSTICS (P) LTD GOA - 403722, India		
6	Lot No.	410104		
7	Expiry date of kit	NOV 2022		

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Antistreptolysin O (ASO)

SE2: Serum specimen from 10-year old child with fever and sore throat for 3 days duration.

S. no	Subject	Antistreptolysin O (ASO)	
		Report	Value in (IU/mL)
1	SE2	Positive / (Negative)	< 200 IU
2	Your Normal Range	< 200 IU	
3	Method	(Qualitative)	(Latex agglutination)
		Semi-Quantitative	Latex agglutination
		Quantitative	Nephelometry / Turbidimetry / ELISA / CLIA/ Others:
4	Name of the kit used	RHELAX ASO	
5	Manufacturer (Name, City, Country)	TULIP DIAGNOSTICS (P) LTD GOA-403722 India	
6	Lot No.	Lot NO. R 201208	
7	Expiry date of kit	Sep 2022	
8	Automation used	Yes / (No)	
9	If yes, give details of Automation used	Model: Manufacturer: City: Country:	

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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	(Positive) / Negative	24 mg/L
2	Your Normal Range	< 6 mg/L	
3	Method	Qualitative	(Latex agglutination)
		Semi-Quantitative	(Latex agglutination)
		Quantitative	Nephelometry / Turbidimetry / ELISA / CLIA/ Others:
4	Name of the kit used	RHELAX CRP	
5	Manufacturer (Name, City, Country)	Coral Clinical System TULIP DIAGNOSTICS (P) LTD U.S. Nagar, Uttarakhand, India	
6	Lot No.	Lot No. R 202263	
7	Expiry date of kit	Jan 2023	
8	Automation used	Yes (No)	
9	If yes, give details of Automation used	Model: Manufacturer: City: Country:	

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

Laboratory / Institution Name: Dept. of Microbiology Dr B V P RMC, Loni

Date of Dispatch: 18/12/2021

Authorized signatory

Signature:

Name: Dr S.B Roushani

DR. S. ROUSHANI
PROFESSOR & HEAD
DEPT. OF MICROBIOLOGY

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

15th 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

Approved By

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

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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 ± 3 and above indicates possible poor performance

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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

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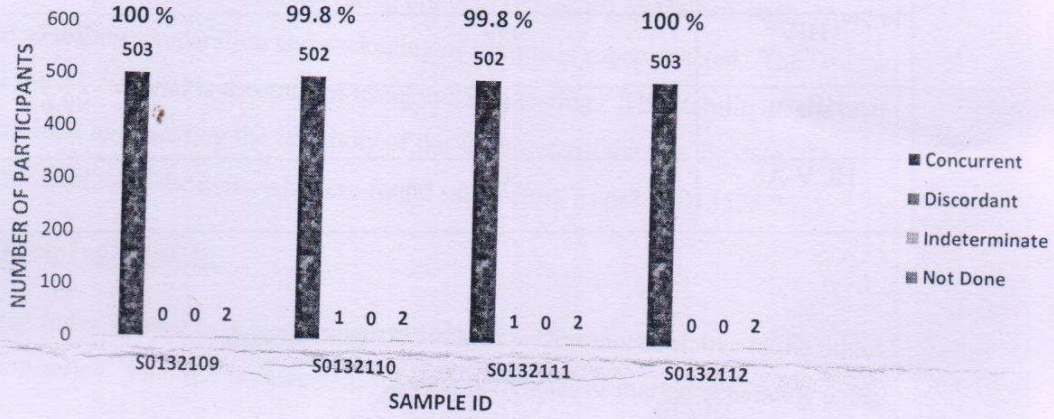
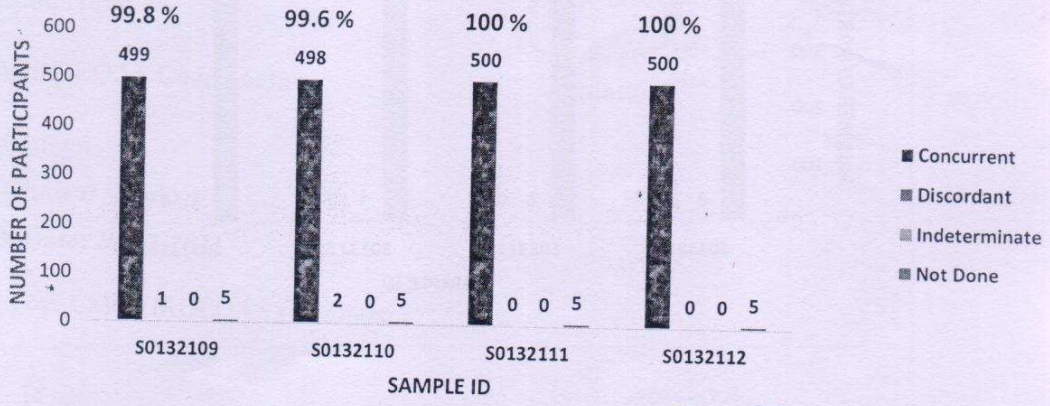
BBVS - HBsAg



BBVS - HCV Ab



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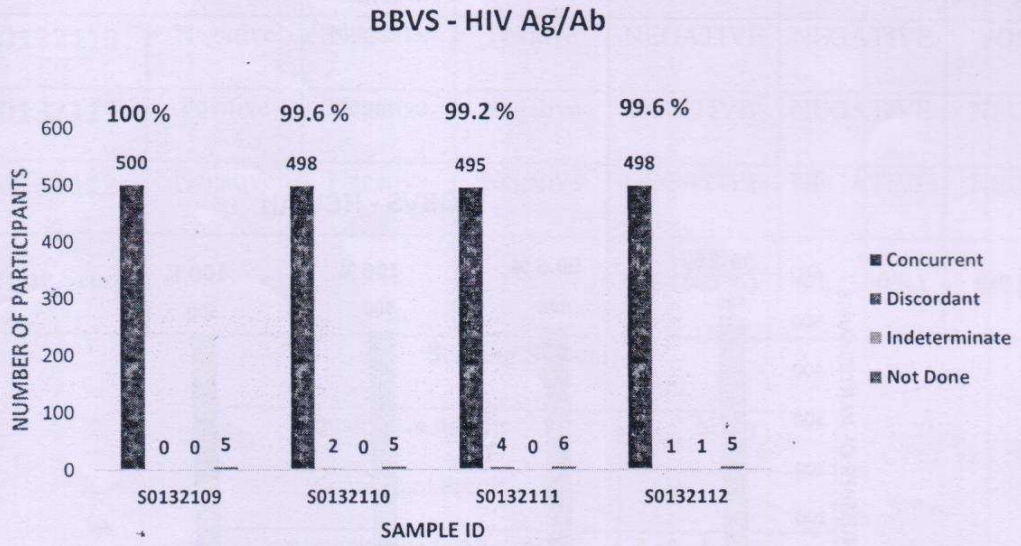
Participants who reported all analyzed specimens accurately

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



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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):

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: 28-12-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

Approved By
Incharge
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Report Dispatch Date: 28-12-2021

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END OF REPORT