PC - 1034

**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

# 14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT

## PANEL: Dengue Serology

**CMCVIROEQAS ID.:** V0288

**Opening Date:** 09-08-2021

**Result Receiving Date:** 25/8/21

**Distribution No:** S221

| Specimen # | Intended Result | | | Your Result | | |
|---|---|---|---|---|---|---|
| | IgM | IgG | NS1 | Dengue IgM | Dengue IgG | Dengue NS1 |
| 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 |



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 |
| 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 NS1 |
|---|---|---|---|
| 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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**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 NS1 |
|---|---|---|---|
| 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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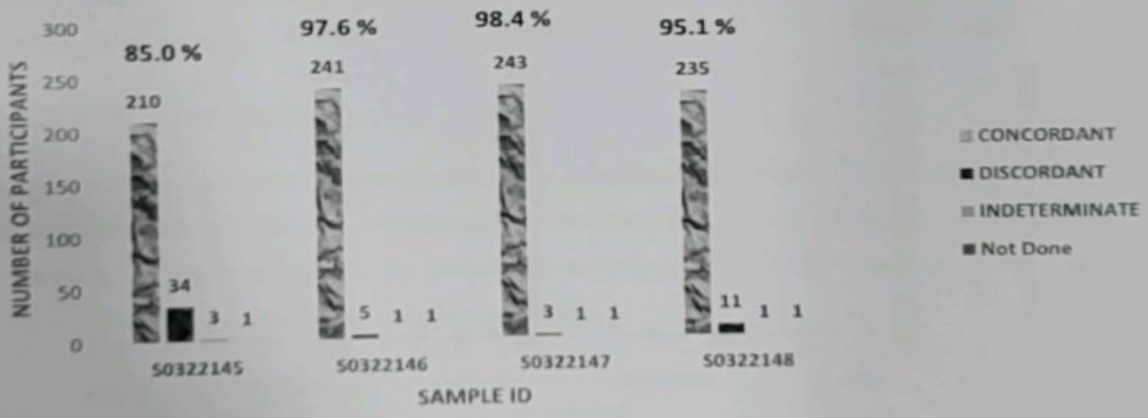
**Participants who reported all analyzed specimens accurately**

| 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



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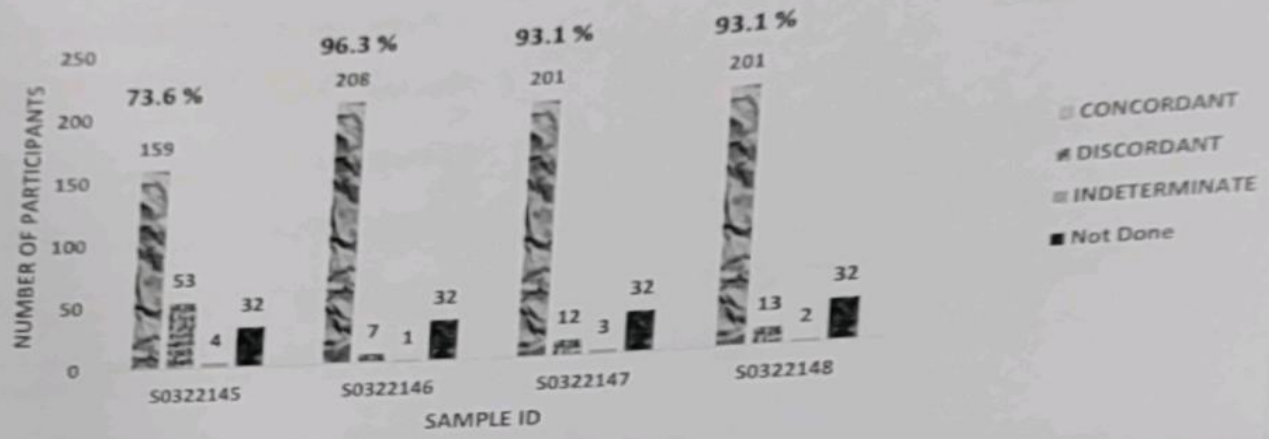
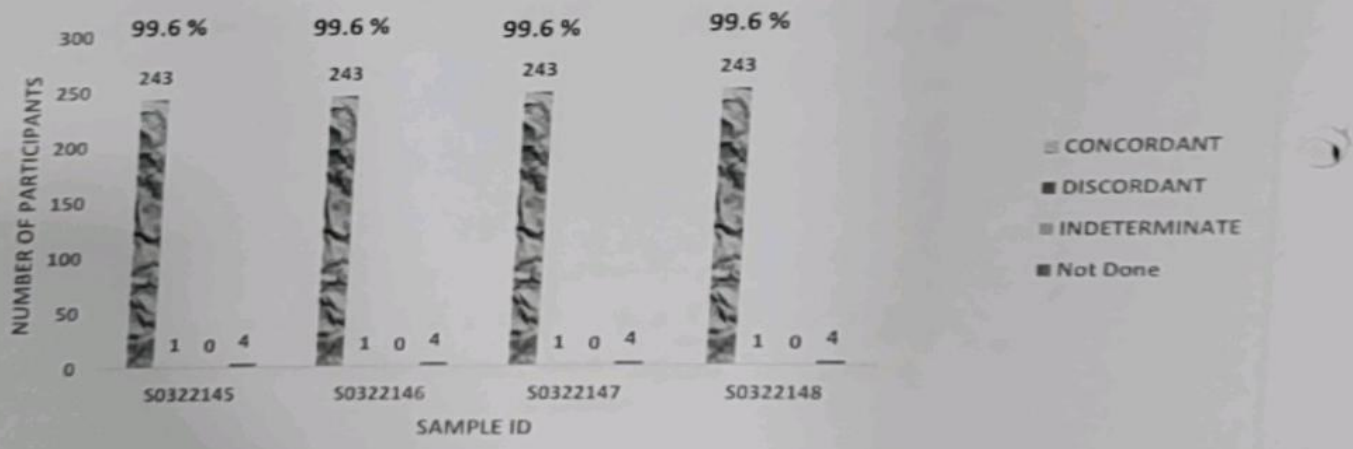
## DENGUE - IgG




## DENGUE - NS1



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PC - 1034

## METHOD SUMMARY

| | Dengue IgM | | Dengue IgG | | Dengue NS1 | |
|---|---|---|---|---|---|---|
| | 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.

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

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

PC - 1034

# 14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT

## PANEL: BBVS

**CMCVIROEQAS ID.** V0288

**Opening Date: 09-08-2021**

**Result Receiving Date:** 25/8/21

**Distribution No:** S221

| 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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CHRISTIAN MEDICAL COLLEGE, VELLORE

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**Vellore-632004, Tamil Nadu**
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PC - 1034

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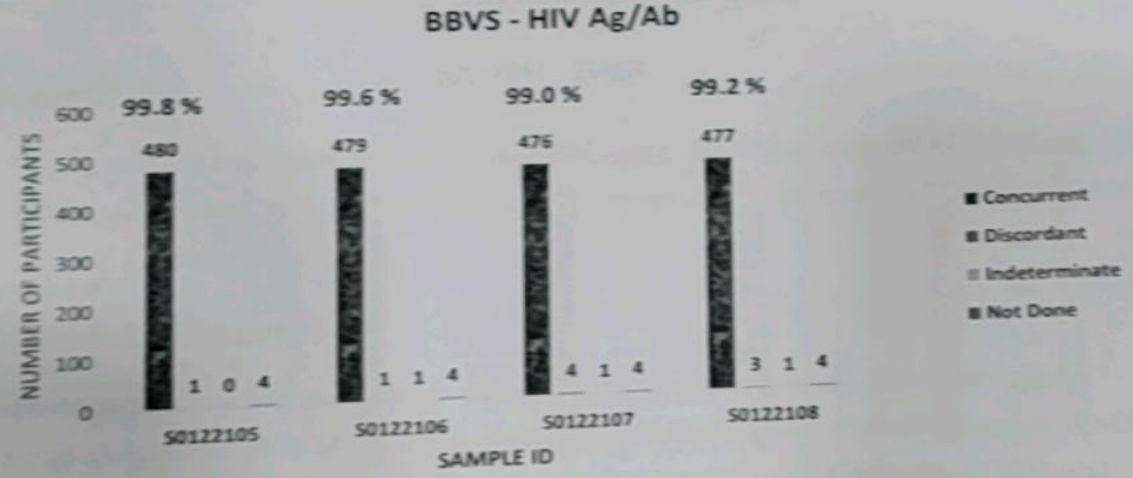
Email: viroeqas@cmcvellore.ac.in Phone: 0416-2283455

PC - 1034

**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



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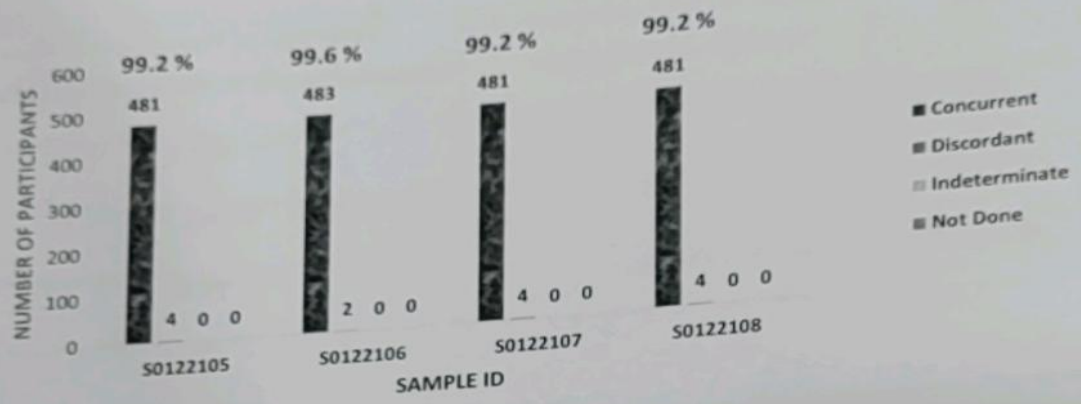
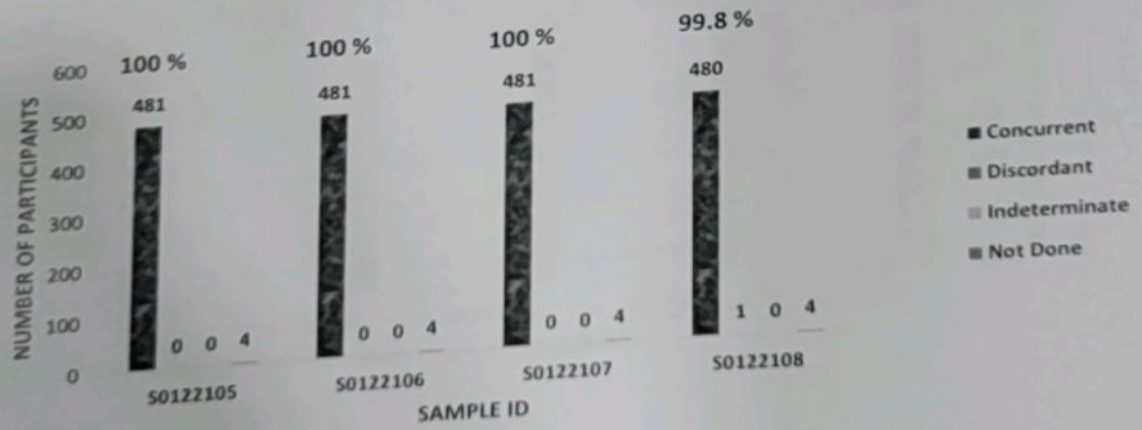
## BBVS - HBsAg




## 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:**

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



**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.

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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

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 | 4.18 IU/ml | Negative | Turbidimetry (n-271) | 10.7787 | 4.3006 | 0.09 to 133 | -1.5 | 2 | 2 |
| SE2 | CRP | Positive | 73.10 mg/L | Positive | Turbidimetry (n-406) | 70.5501 | 12.1574 | 0.76 to 822 | 0.2 | 2 | 2 |

| | 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 | | | | | | |

**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 | 95.1% |
| 4 | 4 | 4 | 19 | 17 | 17 | 2 | 2 | 2 | Maximum marks = 71 | |

Dr. Rani Diana Sahni
Scientific Co-ordinator

Dr. John A Jude Prakash
Quality Manager

Dr. V. Balaji
PT Co-ordinator

Report Dispatch Date:30.10.2021

********** 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' score | 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 |





***MEMBER ID:*** M 0 3 7 9

| SM1* | SM2 | SM3 | CU1 | CU2 | CU3 | SE1 | SE2 | SE3 | Marks obtained | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | NE | 3 | 13 | 17 | 16.5 | 2 | 2 | 2 | 59.5 | 97.5% |
| 4 | NE | 4 | 13 | 17 | 17 | 2 | 2 | 2 | Maximum marks = 61 | |

**NE- Not Evaluated**
**SM1*: Species level identification cannot be determined based on smear findings.**

108th IAMM EQAS Microbiology: Bacteriology, Serology
Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu
Email: eqas@cmcvellore.ac.in Phone: 0416-2282588

NABL 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 | | |
|---|---|---|---|---|---|
| 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**<br>Description of Organism/s (2marks):<br>**Many (0.5) pleomorphic (0.5) Gram negative bacilli (1)**<br>Probable organism (1 mark): ***Hemophilus* 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**<br>Description of Organism/s (2marks):<br>**Many (0.5) Gram negative (1) cocco-bacilli (0.5)**<br>Probable organism (1 mark): ***Acinetobacter* spp** | 0 | 0.5 | 1 |
| | | | 1.5 | 2 | 2.5 |
| | | | 3 | 3.5 | (4) |

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.**

| No. | Subject | STO | STH | Interpretation |
|---|---|---|---|---|
| | SE1 | < 1:80 | < 1:80 | Negative. |
| | Your Normal Range | < 1:80 | | |
| | Method | Tube agglutination or slide agglutination | | |
| | 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 | | |

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

ote: 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 / Negative | < 200 IU/mL |
| | Your Normal Range | < 200 IU/ml | |
| | Method | Qualitative | Latex agglutination |
| | | Semi-Quantitative | Latex agglutination |
| | | Quantitative | Nephelometry / Turbidimetry / ELISA / CLIA/ Others: |
| | Name of the kit used | RECKON | |
| | Manufacturer (Name, City, Country) | ~~ACO~~ RECKON DIAGNOSTIC PLTD VADODARA, INDIA | |
| | Lot No. | 20124765 DBC 050920 | |
| | Expiry date of kit | 07/2022 | |
| | Automation used | Yes / No | |
| | *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 | (Positive) / Negative | 101 mg/l |
| 2 | Your Normal Range | < 0.6 mg/l. | |
| 3 | Method | Qualitative | Latex agglutination |
| | | Semi-Quantitative | Latex agglutination |
| | | (Quantitative) | Nephelometry / (Turbidimetry) / 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 | (Yes) / No | |
| 9 | If yes, give details of Automation used | Model: TURBODYNE<br>Manufacturer: TULIP DIAGNOSTICS<br>City: GOA Country: INDIA | |

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

Laboratory / Institution Name: PACE HOSPITALS Date of Dispatch:

Authorized signatory

Signature:

Name: Dr. D.V. SOMAIAH

## PACE HOSPITALS DEPARTMENT OF LABORATORY MEDICINE

About : 109th Serology EQAS Member ID M0379, Widal , ASO,CRP

This Eqas samples recently received and processing completed the results submit to IAMM-CMC last date till the December 20th 2021

ASO & Widal we don't have Eqas evaluation reports kindly consider these two parameters

Once we get the evaluation reports we will send you