



# VIVEK LABORATORIES®

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Branch : NAGERCOIL  
 Name : Mr. THIRU NEELAKANDAN  
 Age/Gender : 17 Y / Male  
 Patient UID : 87372  
 Referred Client : SIVA HOSPITALS, KOTTAR  
 Referred By : N/A  
 Aadhar No :  
 Passport No :

SID No. : 92249  
 IP / OP No : N/A  
 Registered on : 25/05/2021 16:16  
 Collected on : 25/05/2021 17:09  
 Reported on : 25/05/2021 19:35  
 Sample Type : SODIUM CITRATE



## Test Report

Test Name	Results	Flag	Units	Bio. Ref. Interval
*D-DIMER SODIUM CITRATE Immunoturbidimetry VISA 12	0.13		ug/ml	0 - 0.5

### COMMENT

During coagulation sequence of reactions occur in the body in response to variety of external and/or internal stimuli. The enzymatic cascade reaction terminates in the conversion of fibrinogen to fibrin by the enzyme thrombin. The fibrin gel is then converted to a stable fibrin clot. The fibrin network is dissolved by the enzyme plasmin to generate cross-linked fibrin degradation products (FDP). D-dimer is the smallest plasmin resistant molecular unit present within FDP. An elevated D-dimer may be due VTE, DIC, recent surgery, trauma, infection, liver disease, pregnancy, eclampsia, heart disease, in some cancers and in elderly people. A normal or low D-dimer helps to rule out clotting as the cause of symptoms.

### Note:

1. D-dimer half-life is approximately 8 hours in circulation of individuals with normal renal function. Patients with stabilized clots and not undergoing active fibrin deposition and plasmin activation may not give detectable D-dimer elevations, anti-coagulant therapy.
2. In PE, the larger the clot size, higher the expected level of circulating D-dimer. Conversely, the amount of D-dimer release from very small clots may be diluted by the circulation and may not give a detectable increase.
3. Fibrinolysis is a highly regulated process and in delicate dynamic balance. In case of hereditary, acquired deficiency and dysfunction of Fibrinogen, the rate of fibrinolysis will be altered thus by not giving detectable D-dimer level.
4. False positive may be seen with high levels of rheumatoid factor, fibrin, lipemic sera and hemolyzed blood. The test should be read in conjunction with other clinical parameters.

\*\*\* End of Report \*\*\*

Tests Marked with \* are not in the scope of NABL

Dr. S.R. SRINIVASA KANNAN, M.D. Path  
 DIRECTOR & PATHOLOGIST



Mr. KARTHICK S. B.Sc MLT  
 LAB TECHNICIAN





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Search: NAGERCOIL  
 Name: Master, THIRUNEL KANDAN  
 Age/Gender: 15 Y / Male  
 Patient ID: 66752  
 Referred From: SIVA HOSPITALS, KOTTAR  
 Referred By: N/A  
 Author: No  
 Prospect No:

SID No: 88708  
 IP / OP No: N/A  
 Registered on: 30/05/2021 15:38  
 Collected on: 30/05/2021 15:54  
 Reported on: 30/05/2021 19:52  
 Sample Type: SERUM

## Test Report

Test Name	Results	Flag	Units	Bio. Ref. Interval
<b>LIVER FUNCTION TEST WITH PT</b>				
<b>BILIRUBIN - TOTAL</b> SERUM Color Method Cobas c311	0.25		mg/dL	0 - 1.2
<b>HA BILIRUBIN - DIRECT</b> SERUM Color Method Cobas c311	0.10		mg/dL	0 - 0.3
<b>HA BILIRUBIN INDIRECT</b> SERUM Calculated Cobas c311	0.06		mg/dL	0 - 0.9
<b>SGOT (AST)</b> SERUM P.O. Reference Method Cobas c311	21		U/L	0 - 40
<b>SGPT (ALT)</b> SERUM P.O. Reference Method Cobas c311	11		U/L	0 - 41
<b>ALKALINE PHOSPHATASE</b> SERUM P.O. Reference Method Cobas c311	194		U/L	82 - 331
<b>GGT</b> SERUM P.O. Reference Method Cobas c311	17		U/L	12-35
<b>TOTAL PROTEIN</b> SERUM Biom Cobas c311	6.17		g/dL	6.6 - 8.7
<b>ALBUMIN</b> SERUM Bromocresol Green Cobas c311	4.71	H	g/dL	3.2 - 4.5
<b>GLOBULIN</b> SERUM Calculated	1.46		g/dL	2.3 - 3.5
<b>A/G RATIO</b> SERUM Calculated	1.36		Ratio	1.2 - 2.1
<b>PROTHROMBIN TIME</b> SODIUM CITRATE MECHANICAL, OF OPTICAL TURBIDIMETRY ET 160				





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Branch : NAGERCOIL  
Name : Master, THIRUNEEL KANDAN  
Age/Gender : 15 Y / Male  
Patient UID : 88752  
Referred Client : SIVA HOSPITALS, KOTTAR  
Referred By : N/A  
Aadhar No :  
Passport No :

SID No. : 93708  
IP / OP No : N/A  
Registered on : 30/05/2021 15:36  
Collected on : 30/05/2021 15:51  
Reported on : 30/05/2021 20:21  
Sample Type : SODIUM CITRATE



## Test Report

Test Name	Results	Flag	Units	Bio. Ref. Interval
LIVER FUNCTION TEST WITH PT				
TEST	7.90		Sec	7.7 - 10.3
CONTROL	9.00		Sec	
INR	0.88			

### NOTES

The prothrombin time (PT) is used, often along with a partial thromboplastin time (PTT), to help diagnose the cause of unexplained bleeding or inappropriate blood clots. The international normalized ratio (INR) is a calculation based on results of a PT and is used to monitor individuals who are being treated with the blood thinning medication (anticoagulant) warfarin.

### Uses of PT

- To monitor patients who are on oral anticoagulant therapy. PT is the standard test for monitoring treatment with oral anticoagulants. Oral anticoagulants inhibit carboxylation of vitamin K-dependent factors (Factors II, VII, IX, and X) and make these factors inactive. INR should be maintained in the therapeutic range for the particular indication (INR of 2.0-3.0 for prophylaxis and treatment of deep venous thrombosis, INR of 2.5-3.5 for mechanical heart valves). Therapeutic range provides adequate anticoagulation for prevention of thrombosis and also checks excess dosages, which will cause bleeding.
- To assess liver function: Liver is the site of synthesis of various coagulation factors, including vitamin K-dependent proteins. Therefore PT is a sensitive test for assessment of liver function.
- Detection of vitamin K deficiency: PT measures three of the four vitamin K-dependent factors (i.e. II, VII, and X).
- To screen for hereditary deficiency of coagulation factors VII, X, V, prothrombin, and fibrinogen.

### Causes of prolongation of PT

- Treatment with oral anticoagulants
- Liver disease
- Vitamin K deficiency
- Disseminated intravascular coagulation
- Inherited deficiency of factors in extrinsic and common pathways

### COMPLETE BLOOD COUNT (CBC)

TOTAL WBC COUNT  
EDTA BLOOD  
DC detection method  
Fully Automated Analyzer Sysmex XE550

### DIFFERENTIAL COUNT

EDTA BLOOD  
Flow Cytometry  
Fully Automated Analyzer Sysmex XE550

4370



Cells/cu.mm 4000 - 10000

NEUTROPHILS	40.2		%	40 - 80
LYMPHOCYTES	51.3	H	%	25 - 35
MONOCYTES	5.3		%	2 - 10
EOSINOPHILS	3.0		%	1 - 6
BASOPHILS	0.2		%	0 - 2



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Branch : NAGERCOIL  
 Name : Master, THIRUNEEL KANDAN  
 Age/Gender : 15 Y / Male  
 Patient UID : 88752  
 Referred Client : SIVA HOSPITALS, KOTTAR  
 Referred By : N/A  
 Aadhar No :  
 Passport No :

SID No. : 93798  
 SF / OP No : N/A  
 Registered on : 30/05/2021 15:36  
 Collected on : 30/05/2021 15:51  
 Reported on : 30/05/2021 20:21  
 Sample Type : EDTA BLOOD




Test Name	Test Report			
	Results	Flag	Units	Bio. Ref. Interval
<b>COMPLETE BLOOD COUNT(CBC)</b>				
<b>HAEMOGLOBIN</b>	14.4		g/dl	13 - 17
EDTA BLOOD SLS-Plasmodium method Fully Automated Analyzer Sysmex XN 550				
<b>RBC COUNT</b>	4.90		Million/cu.m	4.5 - 5.5
EDTA BLOOD DC detection method Fully Automated Analyzer Sysmex XN 550				
<b>PCV</b>	40.3		%	40 - 55
EDTA BLOOD Pulse height detection method Fully Automated Analyzer Sysmex XN 550				
<b>MCV</b>	82.2	L	fL	83 - 101
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>MCH</b>	29.4		pg	27 - 32
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>MCHC</b>	35.7	H	g/dl	31.5 - 34.5
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>RDW - CV</b>	13.3		%	11.6 - 14
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>RDW - SD</b>	38.9	L	fL	39 - 46
EDTA BLOOD Calculated				
<b>PLATELET COUNT</b>	2.21		Lakh/Cumm	1.5 - 4
EDTA BLOOD DC detection method Fully Automated Analyzer Sysmex XN 550				
<b>MPV</b>	10.6	H	fL	8 - 9.5
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>*PLATELET DISTRIBUTION WIDTH (PDW)</b>	11.6		fL	
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				





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**SIVA HOSPITAL**

Branch : **NAGERCOIL**

Name : **Master, THIRUNEEL KANDAN**

Age/Gender : **15 Y / Male**

Patient UID : **88752**

Referred Client : **SIVA HOSPITALS, KOTTAR**

Referred By : **N/A**

Aadhar No :

Passport No :

SID No. : **93708**

IP / OP No : **N/A**

Registered on : **30/05/2021 15:36**


Collected on : **30/05/2021 15:51**

Reported on : **30/05/2021 20:21**

Sample Type : **EDTA BLOOD**

**Test Report**

Test Name	Results	Flag	Units	Bio. Ref. Interval
<b>COMPLETE BLOOD COUNT (CBC)</b>				
*RBC	0.22		%	
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
ABSOLUTE NEUTROPHIL COUNT (ANC)	1760	L	Cells/cu.mm	2000 - 7000
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
ABSOLUTE LYMPHOCYTE COUNT (ALC)	2249	L	Cells/cu.mm	6000 - 9000
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
ABSOLUTE EOSINOPHIL COUNT	130		Cells/cu.mm	20 - 500
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
ABSOLUTE MONOCYTE COUNT (AMC)	290		Cells/cu.mm	200 - 1000
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
ABSOLUTE BASOPHIL COUNT (ABC)	10		Cells/cu.mm	20 - 100
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
RETICULOCYTE COUNT	0.99		%	0.5 - 2.5
EDTA BLOOD Flow Cytometry Fully Automated Analyzer Sysmex XN 550				
*CORRECTED RETICULOCYTE COUNT	0.81		%	0.5 - 2.5
EDTA BLOOD Calculated Fully Automated Analyzer Sysmex XN 550				
<b>COMMENT:</b>				
A complete blood count (CBC) is used to evaluate overall health and detect wide range of disorders, including anemia, infection and leukemia. There have been some reports of WBC and platelet counts being lower in venous blood than in capillary blood samples, although still within these reference ranges.				
<b>POSSIBLE CAUSES OF ABNORMAL PARAMETERS:-</b>				
High RBC, Hb, or HCT - dehydration, polycythemia, shock, chronic hypoxia				
Low RBC, Hb, or HCT - anemia, thalassemia, and other hemoglobinopathies				
Low MCV - microcytic anemia				
High MCV - macrocytic anemia, liver disease				
Low WBC - sepsis, neutropenic hypoplasia				
High WBC - acute stress, infection, malignancies				
Low platelets - risk of bleeding				





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Branch : NAGERCOIL	SID No. : 91758	
Name : Master. SHIRUNEEL KANDAN	SP / GP / Ho : N/A	
Age / Gender : 35 Y / Male	Registered on : 30/05/2021 15:36	
Patient ID : 88752	Collected on : 30/05/2021 15:51	
Referred Client : SIVA HOSPITALS, KOTTAIR	Registered on : 30/05/2021 15:21	
Referred By : N/A	Sample Type : EDTA B/C/Z/G	
Referral No :		
Report No :		

Test Name	Result	Flag	Units	Bio. Ref. Interval
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**COMPLETE BLOOD COUNT(CBC)**  
High platelets - risk of thrombosis

**Notes**  
1. Macrocytic Anemia/Leucopenia, Anemia can have low platelet count.  
2. Microcytic Anemia/Leucocytosis can have Reactive thrombocytosis.

For microcytic indices a Mentzer index of less than 1.3 suggests that the patient may have thalassemia trait, and an index of more than 1.3 suggests that the patient may have iron deficiency.

Reference ranges are from Dacie and Lewis Practical Hematology 12th edition (2010).  
Reference ranges may vary between laboratories.

**CBC Test processed on fully automated analyser Part Differential SYSMEX #H-455**  
This device performs hematology analysis according to RBC hydrodynamic capacitance (RBC), microcytic hemoglobin (Hb) and platelet (PLT) using a semi-automated technology and SLS technology.

<b>UREA</b> Urea (BUN) Urea (GLDH) Urea (JBT)	18.1		mg/dl	10.0 - 40.0
<b>CREATININE</b> Creatinine Creatinine (JBT)	0.81		mg/dl	0.7 - 1.2
<b>*INTERLEUKIN 6 (IL-6)</b> IL-6 (ELISA) IL-6 (ELISA)	34.63	18	pg/ml	0.00 - 7.0

**INTENDED USE**  
IL-6 (IL-6) acts as both a pro-inflammatory cytokine and an anti-inflammatory mediator and is secreted by macrophages in a person who has a condition associated with inflammation, such as type 1 rheumatoid arthritis, or with infection, such as tuberculosis. IL-6 can be used in the evaluation of diabetes or cardiovascular disease. It also stimulates the production of acute phase reactants, proteins (such as C-reactive protein) with conditions that cause inflammation or tissue injury. There is some early evidence that IL-6 can be used as an inflammatory marker for severe COVID-19 infection with poor prognosis, in the context of the wider coronavirus pandemic.

**CLINICAL NOTES**  
Normally, IL-6 is not detected in the blood or is present in low quantities. An elevated IL-6 may mean that the person tested has an inflammatory condition. An increase in IL-6 may be seen in conditions such as:

- Systemic Infection:** IL-6 has emerged as a reporter cytokine for viral sepsis infection (diseases associated with an altered immune system (polyclonal B-cell abnormalities or autoimmune diseases)).
- Other conditions:** Elevated levels of circulating IL-6 have been detected in patients with cardiac myxoma, Castleman's disease, rheumatoid arthritis, IgM gammopathy and in those with acquired immunodeficiency syndrome as well as alcoholic liver diseases.
- Proliferative Diseases:** Elevated plasma levels of IL-6 are observed in patients with psoriasis and rheumatoid proliferative glomerulonephritis.
- Neoplastic Diseases:** Increased systemic levels of IL-6 have been detected in patients with multiple myeloma, other B-cell dyscrasias, Langerhans T





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NABL  
ACCREDITED

Branch : NAGERCOIL  
 Name : Master, THIRUNEEL KANDAN  
 Age/Gender : 15 Y / Male  
 Patient UID : 58752  
 Referred Client : SIVA HOSPITALS, KOTTAR  
 Referred By : N/A  
 Aadhar No :  
 Passport No :

SID No. : 93708  
 IP / OP No : N/A  
 Registered on : 30/05/2021 15:36  
 Collected on : 30/05/2021 15:51  
 Reported on : 30/05/2021 19:52  
 Sample Type : SERUM

**Test Report**

Test Name	Results	Flag	Units	Bio. Ref. Interval
<p><b>Ferritin</b>            SERUM            Turbidimetry            (ISPA Q)</p>				
	62.48		ng/mL	30 - 220
<p><b>D-DIMER</b>            CITRATE            Immunoturbidimetry            (ISPA Q)</p>				
	0.15		ug/mL	0 - 0.5

**COMMENT:**  
 During coagulation sequence of reactions occur in the body in response to variety of external and/or internal stimuli. The enzymatic cascade reaction terminates the conversion of fibrinogen to fibrin by the enzyme thrombin. The fibrin gel is then converted to a stable fibrin clot. The fibrin network is dissolved by the enzyme plasmin to generate cross-linked fibrin degradation products (FDP). D-dimer is the smallest plasmin resistant molecular unit present within FDP. An elevated D-dimer may be due to VTE, DIC, recent surgery, trauma, infection, liver disease, pregnancy, sciatica, heart disease, in some cancers and in elderly people. A normal or low D-dimer helps to rule out clotting as the cause of symptoms.

D-dimer half-life is approximately 6 hours in circulation of individuals with normal renal function. Patients with stabilized clots and not undergoing active fibrin deposition and plasmin activation may not give detectable D-dimer elevations, anti-coagulant therapy.

In PE, the larger the clot size, higher the expected level of circulating D-dimer. Conversely, the amount of D-dimer release from very small clots may be used by the circulation and may not give a detectable increase.

Fibrinolysis is a highly regulated process and in delicate dynamic balance. In case of hereditary, acquired deficiency and dysfunction of Fibrinogen, the rate of fibrinolysis will be altered and may not give detectable D-dimer level.

False positive may be seen with high levels of rheumatoid factor (RA) in serum, IgG in sera and hemolyzed blood. The test should be read in conjunction with other clinical parameters.

**C-REACTIVE PROTEIN (CRP)**  
 SERUM  
 Turbidimetry  
 (ISPA Q)

0.89

mg/L

0 - 6

**COMMENT:** C-reactive protein (CRP) is a non-specific indicator of inflammation and one of the most sensitive acute phase protein made by the liver. CRP test measures the amount of CRP in the blood to detect inflammation due to acute conditions or to monitor the severity of disease in chronic conditions.

Tests Marked with \* are not in the scope of NABL

  
 Dr. S.R. SRINIVASA KANNAN M.D. Path  
 DIRECTOR & PATHOLOGIST

\*\*\* End of Report \*\*\*




  
 Dr. LALITHA SRINIVASAN, S. PhD  
 MICROBIOLOGIST



# VIVEK LABORATORIES®

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Branch : NAGERCOIL  
Name : Mr. THIRUHEELAKANDIAN  
Age/Gender : 15 Y / Male  
Patient ID# : 86778  
Referred By : Dr. SRINIVASA KANNAN SR  
Analyst ID# :  
Passport No :  
SID No. : 91609  
IP / OP No. : N/A  
Registered on : 24/05/2021 12:57  
Collected on : 01/01/2024 01:18  
Reported on : 24/05/2021 16:45  
Sample Type : NASOPHARYNGEAL & THROAT  
SWAB  
8764291

## MOLECULAR BIOLOGY SARS-CoV-2 QUALITATIVE ASSAY REPORT REAL - TIME PCR

### INTERPRETATION:

Positive and Negative controls are run along with the specimen. The specimen is determined as Positive when its amplification reaches exponential phase and the curve rises above the threshold value(CT).

### REPORT:

SPECIMEN TYPE	RESULT	
	SARS-CoV-2 (N-Gene)	SARS-CoV-2 (ORF1ab-Gene)
NASOPHARYNGEAL & THROAT SWAB	CT Value-22.63	
	POSITIVE	NEGATIVE

### IMPRESSION:

SARS-CoV-2 (COVID-19) RNA DETECTED.

ICMR Approved testing center for RT-PCR.

ICMR Reg. No. -VLNKTN


No. 1159, (Old No. 253), K/1, K.P Road, Nagercoil - 629 003, Tamilnadu, India

*G. Pradeepa*  
PRADEEPA, MSc., MPhil.,  
Biotechnologist




*Dr. S.R. Srinivasa Kannan*  
Dr. S.R. SRINIVASA KANNAN, M.D. Path.  
DIRECTOR & PATHOLOGIST





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---

Branch : NAGERCOIL  
 Name : Mr. THIRUSHEELAKANDIAN  
 Age/Gender : 15 Y / Male  
 Patient ID# : 06778  
 Referred User :  
 Referred By : Dr. SRINIVASA KANNAN, MD  
 Author ID# :  
 Passport No :

SID No. : 91009  
 R / CP No : N/A  
 Registered on : 24/05/2021 12:57  
 Collected on : 01/06/2021 01:18  
 Reported on : 24/06/2021 16:45  
 Sample Type : NASOPHARYNGEAL & SWAB  
 VVNA

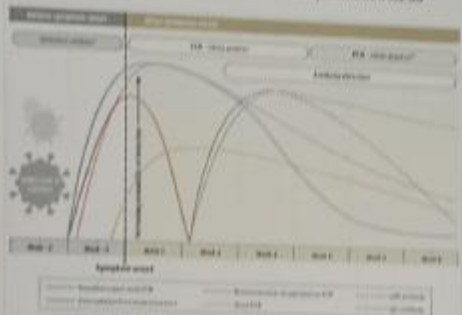
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RT64291

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**MOLECULAR BIOLOGY**  
**Interpreting Diagnostic Tests for SARS-CoV-2**

JAMA. 2020;323(22):2249-2251. doi:10.1001/jama.2020.8259

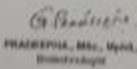


**Estimated Variation Over Time in Diagnostic Tests for Detection of SARS-CoV-2 Infection Relative to Symptom Onset**


*Estimated time intervals and rates of viral detection are based on data from several published reports. Because of variability in values among studies, estimated time intervals should be considered approximations and the probability of detection of SARS-CoV-2 infection is presented qualitatively.*


a) Detection only occurs if patients are followed up prospectively from the time of exposure.  
 b) More likely to register a negative than a positive result by PCR of a nasopharyngeal swab

\*\*\* End of Report \*\*\*



Pradeepa, MSc, Mphd,  
Biomedical Scientist





DR. S. R. SRINIVASA KANNAN M.D. PhD  
 DIRECTOR & PATHOLOGIST

Page 2 of 2

**NABL ACCREDITED LABORATORY**  
 24 hrs SERVICE