

**Laboratory Investigation Report**

Patient Name	Centre
Age/Gender	OP/IP No/UHID
MaxID/Lab ID	Collection Date/Time
Ref Doctor	Reporting Date/Time

**Hematology Special**
**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
<b>Free Protein S, Citrate Plasma</b>			
Protein S, Free Latex Ligand Immunoassay	69.9	%	74.1-146.1

**Interpretation** Protein S is a vitamin K-dependent plasma glycoprotein synthesized in the liver. It functions as a cofactor to Protein C in the inactivation of Factors Va and VIIIa and plays a role in anticoagulation pathway.

Reduced levels predispose to VTE. It can be seen in hereditary deficiency, pregnancy, Oral anticoagulant e.g. Warfarin, nephritic syndrome and liver diseases.

**Protein C, Functional, Sodium Citrate**  
Automated Chromagenic Assay

Protein C, Functional	107	%	70 - 140
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**Interpretation**

Protein C is a zymogen, the activated form of which plays an important role in regulating anticoagulation, inflammation, cell death, and maintaining the permeability of blood vessel walls in humans and other animals.

Reduced levels predispose to VTE. It can be seen in hereditary deficiency, pregnancy, Oral anticoagulant e.g. Warfarin, malignancy and liver diseases.

**Anti Thrombin - III - Functional, Citrate Plasma**

Antithrombin III Functional Chromogenic assay	117	%	10-150
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**Interpretation** Syn – Antithrombin III

Antithrombin is a small protein molecule that inactivates several enzymes of the coagulation system.

Low levels of AT are found in 4-5% patients with unexplained VTE.

Reduced levels are seen in Hereditary deficiency, chronic liver diseases, heparin therapy, pregnancy (3<sup>rd</sup> trimester), acute leukemia, burns and renal diseases.

**Lupus Anticoagulant, Sodium Citrate**

dRVVT	.		
dRVVT Screen	28.40	Sec	29.9 - 47.1
dRVVT Screen ratio	0.74		
dRVVT Confirm	25.70	Sec	24.8 - 34.1
dRVVT Confirm ratio	0.87		
dRVVT Screen: Confirm ratio	0.85		0.0 - 1.20
Interpretation	No Lupus Like Anticoagulant Present		

Kindly correlate with clinical findings

\*\*\* End Of Report \*\*\*

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(CIN No.: U85100DL2021PLC381826)

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MC-2714

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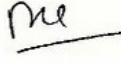
**Hematology Special****Thrombocheck Total Panel**

SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
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**Dr. Poonam S. Das, M.D.**  
Principal Director-  
Max Lab & Blood Bank Services



**Dr. Dilip Kumar M.D.**  
Associate Director &  
Manager Quality



**Dr. Nitin Dayal, M.D.**  
Principal Consultant & Head,  
Haematopathology

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**Laboratory Investigation Report**

Patient Name	Centre
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**Molecular Diagnostics**
**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
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**Factor V Leiden Mutational Analysis**
**Real Time PCR**

Factor V Leiden Mutation Real Time PCR	Not Detected
Prothrombin Gene Mutation	Not Detected
MTHFR Gene Mutation (C677T)	Heterozygous Mutation Detected
MTHFR Gene Mutation (A1298C)	Heterozygous Mutation Detected

**Interpretation**

Result	Comments
<b>Homozygous Mutation Detected</b>	Both alleles carry mutation
<b>Heterozygous Mutation Detected</b>	Single allele carries mutation
<b>Not Detected</b>	Both alleles do not carry mutation

**Note**

1. This is an in-house developed qualitative assay.
2. All results should be interpreted in context of clinical findings.
3. This assay detects the following mutations:

Factor V Leiden (R506Q)  
Factor II Prothrombin Gene mutation (G20210A)  
MTHFR Gene (C677T; A1298C)

4. Test conducted on Whole blood.
5. Presence of PCR inhibitors if any, might lead to amplification failure.

**Comments**

The most common identifiable genetic defects in Venous thromboembolism is the factor V (R506Q) Leiden mutation which causes resistance to activated protein C (APC). APC resistance results in thrombotic predisposition via the destruction of the activated protein C cleavage & inactivation site in the factor V procoagulant protein. The factor V Leiden mutation is extremely common; heterozygotes represent 3% to 7% of the general population, approximately 20% of all patients with any venous thrombosis, and approximately 50% of patients with recurrent venous thrombosis.

The second most common thrombophilic genetic defect is the prothrombin G20210A mutation, imparting a 2- to 5-fold increased risk for venous thromboembolism (in heterozygotes) and being present in heterozygous form in 15% to 20% of patients with thrombophilia.

Genetic polymorphism associated with severe MTHFR deficiency is defined by a C to T substitution at position 677 (C677T) and/or A to C substitution at position 1298 (A1298C) of the *MTHFR* gene. These mutations lead to the incorporation of amino acid alanine (A) instead of valine (V) at position 222 and glutamate to alanine substitution at codon 429 respectively of the MTHFR protein. These mutations may lead to hyperhomocysteinemia

**Uses**

Venous thrombosis is a multifactorial disease frequently related to the interaction of genetic and environmental risk factors. Testing for specific mutations in these patients helps to determine the decision on the duration of anticoagulant therapy and risk stratification for primary or secondary prophylaxis. This test is used as a

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**Molecular Diagnostics**
**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
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thrombosis risk factor in patients prior to major surgery, pregnancy, postpartum, oral contraceptive use, estrogen replacement therapy, transient ischemic attacks, premature stroke, peripheral vascular disease, pulmonary embolism & family history of thrombosis or known Factor V mutations in the family.

Kindly correlate with clinical findings

\*\*\* End Of Report \*\*\*



**Dr. Nitin Dayal, M.D.**  
Principal Consultant & Head,  
Haematopathology



**Dr Atul Thatal, Ph.D**  
Director  
Molecular and Cyto Genomics

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**Clinical Biochemistry**  
**Thrombocheck Total Panel**


**Homocysteine, Quantitative, Serum**

<b>Date</b>	<b>31/Oct/2023</b>	<b>Unit</b>	<b>Bio Ref Interval</b>
	<b>08:59AM</b>		
Homocysteine, Quantitative	10.7	μmol/ L	3-12
Enzymatic kinetic			

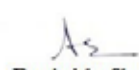
**Interpretation** Measurement of Homocysteine is considered important to diagnose homocystinuria, to identify individuals with or at a risk of developing cobalamin or folate deficiency, and to assess Homocysteine as a risk factor for cardiovascular disease (CVD) and other disorders.

Kindly correlate with clinical findings

\*\*\* End Of Report \*\*\*

  
**Dr. Poonam S. Das, M.D.**  
 Principal Director-  
 Max Lab & Blood Bank Services

  
**Dr. Dilip Kumar M.D.**  
 Associate Director &  
 Manager Quality

  
**Dr. Anisha Sharma, M.D., DNB**  
 Consultant Biochemistry

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**Serology Special**
**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
<b>Beta-2 Glycoprotein 1, IgG, Serum</b>			
FEIA			
Beta-2 Glycoprotein 1, IgG	0.9	U/mL	

**Ref Range :-**

Negative &lt; 7.0

Equivocal 7 - 10

Positive &gt; 10

**Interpretation :**

Detection of Beta-2 Glycoprotein antibodies are indicative of risk for thrombosis in autoimmune diseases.

Beta-2 Glycoprotein I IgG is intended for the in vitro quantitative measurement of IgG antibodies directed to  $\beta$ 2-Glycoprotein I in human serum and plasma to aid in the diagnosis of antiphospholipid syndrome (APS) and to evaluate the thrombotic risk in patients with systemic lupus erythematosus (SLE). A definitive clinical diagnosis should not be based on the results of a single diagnostic method, but should only be made after all clinical and laboratory findings have been evaluated.

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**Serology Special**
**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
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**Beta-2 Glycoprotein 1, IgM, Serum**  
 FEIA

Beta-2 Glycoprotein 1, IgM	0.7	U/mL	
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**Ref Range :-**

Negative &lt; 7.0

Equivocal 7 - 10

Positive &gt; 10

**Interpretation :**

Detection of Beta-2 Glycoprotein antibodies are indicative of risk for thrombosis in autoimmune diseases.

Beta-2 Glycoprotein I IgM is intended for the in vitro quantitative measurement of IgM antibodies directed to  $\beta$ 2-Glycoprotein I in human serum and plasma to aid in the diagnosis of antiphospholipid syndrome (APS) and to evaluate the thrombotic risk in patients with systemic lupus erythematosus (SLE). A definitive clinical diagnosis should not be based on the results of a single diagnostic method, but should only be made after all clinical and laboratory findings have been evaluated. Rheumatoid factor (RF) can interfere with the determination of IgM anti- $\beta$ 2-Glycoprotein I antibodies.

Kindly correlate with clinical findings

**\*\*\* End Of Report \*\*\***

**Dr. Poonam S. Das, M.D.**  
 Principal Director-  
 Max Lab & Blood Bank Services


**Dr. Bansidhar Tarai, M.D.**  
 Associate Director  
 Microbiology & Molecular Diagnostics


**Dr. Sonu Kumari Agrawal, MD**  
 Associate Consultant  
 Microbiology


**Dr. Nidhi Malik, MD**  
 Consultant Microbiology

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**Hematology**

SIN No: B2B4261373

**Thrombocheck Total Panel**

Test Name	Result	Unit	Bio Ref Interval
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**Factor VIII Studies, Citrate Plasma**

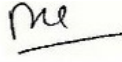
Photo-Optical-Clot Detection

Factor VIII Assay Based on APTT Assay	307.8	%	50-150
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Kindly correlate with clinical findings

**\*\*\* End Of Report \*\*\***

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**Serology Special**

**Thrombocheck Total Panel**

Test Name	Result	Unit	Bio Ref Interval
<b>Anti Cardiolipin Ab,IgG,Serum</b>			
Anti Cardiolipin IgG FEIA	1.3	GPL-U/mL	< 10.0

**Ref. Range**

Negative < 10  
Weak Positive 10 - 40  
Positive > 40

**Comment :**

Cardiolipin antibodies is detected in autoimmune disorders particularly systemic lupus erythematosus (SLE), vascular thrombosis, thrombocytopenia etc. Elevations of cardiolipin antibody is associated with increased risk in idiopathic thrombocytopenia purpura, rheumatoid, psoriatic, arthritis primary sjogren's syndrome.

**Interpretation :**

Cardiolipin IgG is intended for the in vitro quantitative measurement of IgG antibodies directed to cardiolipin in serum and plasma to aid in the diagnosis of antiphospholipid syndrome (APS) and to evaluate the thrombotic risk in patients with systemic lupus erythematosus (SLE). A definitive clinical diagnosis should not be based on the results of a single diagnostic method, but should only be made after all clinical and laboratory findings have been evaluated.

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**Thrombocheck Total Panel**


SIN No: B2B4261373

Test Name	Result	Unit	Bio Ref Interval
<b>Anti Cardiolipin Ab,IgM,Serum</b>			
Anti Cardiolipin IgM	1.2	MPL-U/mL	< 10.0

**Ref. Range**

Negative < 10  
 Equivocal 10 - 40  
 Positive >40

**Comment :**

Cardiolipin antibodies is detected in autoimmune disorders particularly systemic lupus erythematosus (SLE), vascular thrombosis thrombocytopenia etc. Elevations of cardiolipin antibody is associated with increased risk in idiopathic thrombocytopenia purpura, rheumatoid, psoriatic, arthritis primary sjogren's syndrome.

**Interpretation :**

Cardiolipin IgM is intended for the in vitro quantitative measurement of IgM antibodies directed to cardiolipin in serum and plasma to aid in the diagnosis of antiphospholipid syndrome (APS) and to evaluate the thrombotic risk in patients with systemic lupus erythematosus (SLE). A definitive clinical diagnosis should not be based on the results of a single diagnostic method, but should only be made after all clinical and laboratory findings have been evaluated. Rheumatoid factor (RF) can interfere with the determination of IgM anti-cardiolipin antibodies.

Kindly correlate with clinical findings

\*\*\* End Of Report \*\*\*



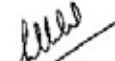
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**Conditions of Reporting:** 1. The tests are carried out in the lab with the presumption that the specimen belongs to the patient name as identified in the bill/test request form. 2. The test results relate specifically to the sample received in the lab and are presumed to have been generated and transported per specific instructions given by the physicians/laboratory. 3. The reported results are for the information and interpretation by the referring doctor only. 4. Some tests are referred to other laboratories to provide a wider test menu to the customer. 5. Max Healthcare shall in no event be liable for accidental damages loss, or destruction of specimen which is not attributable to any direct and mala fide act or omission of Max Healthcare or its employees. Liability of Max Healthcare for deficiency of services, or other errors and omissions shall be limited to fee paid by the patient for the relevant laboratory services.



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