



# P K R JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

**A PIONEER DIAGNOSTIC CENTRE**

☎ 0171-2532620, 8222896961 ✉ pkrjainhealthcare@gmail.com

**NAME** : Mrs. KAJAL  
**AGE/ GENDER** : 17 YRS/FEMALE  
**COLLECTED BY** :  
**REFERRED BY** :  
**BARCODE NO.** : 12503729  
**CLIENT CODE.** : P.K.R JAIN HEALTHCARE INSTITUTE  
**CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

**PATIENT ID** : 1556532  
**REG. NO./LAB NO.** : 122407220014  
**REGISTRATION DATE** : 22/Jul/2024 11:39 AM  
**COLLECTION DATE** : 22/Jul/2024 01:30PM  
**REPORTING DATE** : 22/Jul/2024 01:52PM

Test Name	Value	Unit	Biological Reference interval
-----------	-------	------	-------------------------------

## VITAMINS

### VITAMIN B12/COBALAMIN

VITAMIN B12/COBALAMIN: SERUM 341.1 pg/mL 200.0 - 1100.0


by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)


#### INTERPRETATION:-

INCREASED VITAMIN B12	DECREASED VITAMIN B12
1.Ingestion of Vitamin C	1.Pregnancy
2.Ingestion of Estrogen	2.DRUGS:Aspirin, Anti-convulsants, Colchicine
3.Ingestion of Vitamin A	3.Ethanol lgestion
4.Hepatocellular injury	4. Contraceptive Harmones
5.Myeloproliferative disorder	5.Haemodialysis
6.Uremia	6. Multiple Myeloma

1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.  
2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.  
3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.  
4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eg, ileal resection, small intestinal diseases).  
5.Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.  
6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.  
7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption.  
**NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.



  
DR.VINAY CHOPRA  
CONSULTANT PATHOLOGIST  
MBBS, MD (PATHOLOGY & MICROBIOLOGY)

  
DR.YUGAM CHOPRA  
CONSULTANT PATHOLOGIST  
MBBS, MD (PATHOLOGY)





# P K R JAIN HEALTHCARE INSTITUTE

NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

**A PIONEER DIAGNOSTIC CENTRE**

☎ 0171-2532620, 8222896961 ✉ pkrjainhealthcare@gmail.com

NAME	: Mrs. KAJAL	PATIENT ID	: 1556532
AGE/ GENDER	: 17 YRS/FEMALE	REG. NO./LAB NO.	: 122407220014
COLLECTED BY	:	REGISTRATION DATE	: 22/Jul/2024 11:39 AM
REFERRED BY	:	COLLECTION DATE	: 22/Jul/2024 01:30PM
BARCODE NO.	: 12503729	REPORTING DATE	: 23/Jul/2024 04:51PM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA		

Test Name	Value	Unit	Biological Reference interval
-----------	-------	------	-------------------------------

## MOLECULAR PATHOLOGY

### HUMAN LEUKOCYTE ANTIGEN (HLA)-B27 QUALITATIVE: RT- PCR

HUMAN LEUKOCYTE ANTIGEN (HLA)-B27 PCR

NEGATIVE (-ve)

by RT-PCR (REAL TIME-POLYMERASE CHAIN REACTION)

#### INTERPRETATION:

- 1.HLA B-27 is a major histocompatibility complex (MHC) class I molecule. MHC class I molecules are cell surface glycoproteins that are expressed on most nucleated human cells and platelets.
- 2.HLA molecules can be divided into HLA Class I and Class II.
- 3.The presence of HLA-B27 antigen is strongly associated with ankylosing spondylitis (AS), a chronic inflammatory disease of the axial musculoskeletal system and a few other rheumatic disorders (Reiter's syndrome, acute anterior uveitis and inflammatory bowel disease).
- 4.HLA-B27 testing is routinely used to screen for AS since 90% of patients with AS have the HLA-B27 surface antigen compared to only 8% of healthy individuals.
- 5.Correlation with clinical and other hematological parameters is advised.

#### NOTE:

Extraction Done on US FDA Approved Fully Automated Extraction system & CE IVD Approved RT-PCR System & Kits

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



DR.VINAY CHOPRA  
CONSULTANT PATHOLOGIST  
MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA  
CONSULTANT PATHOLOGIST  
MBBS, MD (PATHOLOGY)

