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CERTIFICATE NO: MC-3238

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

SAMPLE COLLECTED AT :
HCL HEALTHCARE NOIDA SEZ CORPORATE CENTER,
HCL HEALTHCARE,GATE 4, PLOT 3A,
SECTOR-126, NOIDA, UP - 201301,
INDIA-201301

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS
HbA1c - (HPLC)			
	H.P.L.C	5.6	%

Reference Range :

Reference Range: As per ADA Guidelines	Guidance For Known Diabetics
Below 5.7% : Normal	Below 6.5% : Good Control
5.7% - 6.4% : Prediabetic	6.5% - 7% : Fair Control
>=6.5% : Diabetic	7.0% - 8% : Unsatisfactory Control
	>8% : Poor Control

Method : Fully Automated H.P.L.C method

AVERAGE BLOOD GLUCOSE (ABG)	CALCULATED	114	mg/dl

Reference Range :

90 - 120 mg/dl : Good Control
121 - 150 mg/dl : Fair Control
151 - 180 mg/dl : Unsatisfactory Control
> 180 mg/dl : Poor Control

Method : Derived from HBA1c values

Please correlate with clinical conditions.

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 14 Mar 2023 17:32
Report Released on (RRT) : 14 Mar 2023 20:13
Sample Type : EDTA
Labcode : 1403101022/HCL04
Barcode : AR240005

Dr Neha Prabhakar MD(Path)

Dr V Sandeep MD(Path)

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c
PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

SAMPLE COLLECTED AT :
HCL HEALTHCARE NOIDA SEZ CORPORATE CENTER,
HCL HEALTHCARE,GATE 4, PLOT 3A,
SECTOR-126, NOIDA, UP - 201301,
PAN ID : HN1-20397

TEST NAME	VALUE	UNITS	REFERENCE RANGE
HEMOGLOBIN	13.8	g/dL	13-17
HEMATOCRIT(PCV)	44.3	%	40-50
TOTAL RBC	4.9	x10^6/µL	4.5-5.5
MEAN CORPUSCULAR VOLUME(MCV)	90.4	fL	83-101
MEAN CORPUSCULAR HEMOGLOBIN(MCH)	28.2	pq	27-32
MEAN CORP.HEMO.CONC(MCHC)	**31.2**	**g/dL**	**31.5-34.5**
RED CELL DISTRIBUTION WIDTH (RDW-CV)	13.5	%	11.6-14
TOTAL LEUCOCYTES COUNT (WBC)	5.12	x10³/µL	4.0-10.0
NEUTROPHILS	64	%	40-80
LYMPHOCYTE PERCENTAGE	26.2	%	20-40
EOSINOPHILS	3.5	%	0.0-6.0
MONOCYTES	4.9	%	0-10
BASOPHILS	0.4	%	<2
NEUTROPHILS - ABSOLUTE COUNT	3.28	x10³/µL	2.0-7.0
LYMPHOCYTES - ABSOLUTE COUNT	1.34	x10³/µL	1.0-3.0
EOSINOPHILS - ABSOLUTE COUNT	0.18	x10³/µL	0-0.5
MONOCYTES - ABSOLUTE COUNT	0.25	x10³/µL	0.2-1
BASOPHILS - ABSOLUTE COUNT	0.02	x10³/µL	0-0.1
PLATELET COUNT	**120**	**x10³/µL**	**150-400**
IMMATURE GRANULOCYTES(IG)	0.05	x10³/µL	0-0.3
IMMATURE GRANULOCYTE PERCENTAGE(IG%)	**1**	**%**	**0-0.5**
NUCLEATED RED BLOOD CELLS	Nil	x10³/µL	<0.01
NUCLEATED RED BLOOD CELLS %	**Nil**	**%**	**<0.01**

Please Correlate with clinical conditions.
Method : Fully automated bidirectional analyser (6 Part Differential SYSMEX XN-1000)
(This device performs hematology analyses according to the Hydrodynamic Focussing (DC method), Flow Cytometry Method (using a semiconductor laser), and SLS- hemoglobin method)

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 14 Mar 2023 17:32
Report Released on (RRT) : 14 Mar 2023 20:13
Sample Type : EDTA
Labcode : 1403101022/HCL04
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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

SAMPLE COLLECTED AT :
HCL HEALTHCARE NOIDA SEZ CORPORATE CENTER,
HCL HEALTHCARE,GATE 4, PLOT 3A, SECTOR-126,
NOIDA, UP - 201301, INDIA-201301

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS
FASTING BLOOD SUGAR(GLUCOSE)	**PHOTOMETRY**	**110.18**	**mg/dL**

Reference Range :-

As per ADA Guideline: Fasting Plasma Glucose (FPG)	
Normal	70 to 100 mg/dl
Prediabetes	100 mg/dl to 125 mg/dl
Diabetes	126 mg/dl or higher

Note :
The assay could be affected mildly and may result in anomalous values if serum samples have heterophilic antibodies, hemolyzed , icteric or lipemic. The concentration of Glucose in a given specimen may vary due to differences in assay methods, calibration and reagent specificity. For diagnostic purposes results should always be assessed in conjunction with patients medical history, clinical findings and other findings.

Please correlate with clinical conditions.
Method:- GOD-PAP METHOD

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 14 Mar 2023 17:35
Report Released on (RRT) : 14 Mar 2023 21:38
Sample Type : FLUORIDE
Labcode : 1403101279/HCL04
Barcode : AR198230

Dr Neha Prabhakar MD(Path)

Dr V Sandeep MD(Path)

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : COMPLETE URINE ANALYSIS

SAMPLE COLLECTED AT :
HCL HEALTHCARE NOIDA SEZ CORPORATE CENTER,
HCL HEALTHCARE,GATE 4, PLOT 3A, SECTOR-126,
NOIDA, UP - 201301, INDIA-201301

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

PAN ID : HN1-20397

TEST NAME	OBSERVATION	UNITS	REFERENCE RANGE
Complete Urinogram			
Physical Examination			
VOLUME	3	mL	-
COLOUR	PALE YELLOW	-	Pale Yellow
APPEARANCE	CLEAR	-	Clear
SPECIFIC GRAVITY	< 1.003	-	1.003-1.030
PH	6.5	-	5 - 8
Chemical Examination			
URINARY PROTEIN	ABSENT	mg/dl	Absent
URINARY GLUCOSE	ABSENT	mg/dl	Absent
URINE KETONE	ABSENT	mg/dl	Absent
URINARY BILIRUBIN	ABSENT	mg/dl	Absent
UROBILINOGEN	Normal	mg/dl	<=0.2
BILE SALT	ABSENT	-	Absent
BILE PIGMENT	ABSENT	-	Absent
URINE BLOOD	ABSENT	-	Absent
NITRITE	ABSENT	-	Absent
MICROALBUMIN	10	mg/l	< 30
Microscopic Examination			
MUCUS	PRESENT	-	Absent
RED BLOOD CELLS	ABSENT	Cells/HPF	0-5
URINARY LEUCOCYTES (PUS CELLS)	ABSENT	Cells/HPF	0-5
EPITHELIAL CELLS	2	Cells/HPF	0-5
CASTS	ABSENT	-	Absent
CRYSTALS	ABSENT	-	Absent
BACTERIA	ABSENT	-	Absent
YEAST	ABSENT	-	Absent
PARASITE	ABSENT	-	Absent

Method : Fully Automated Matrix AVE Urinalysis Dipstick Method, Microscopy

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 14 Mar 2023 19:03
Report Released on (RRT) : 14 Mar 2023 20:06
Sample Type : URINE
Labcode : 1403107246/HCL04
Barcode : AR710628

Dr Neha Prabhakar MD(Path)

Dr V Sandeep MD(Path)

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

SAMPLE COLLECTED AT :
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HCL HEALTHCARE,GATE 4, PLOT 3A, SECTOR-126,
NOIDA, UP - 201301, INDIA-201301

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS
PROSTATE SPECIFIC ANTIGEN (PSA)	C.L.I.A	0.26	ng/ml

Reference Range :-

Normal : < 4.00 ng/ml
Border line : 4.01 to 10.00 ng/ml

Clinical Significance:

Elevated levels of PSA are associated with prostate cancer, but may also be seen with prostatitis (Inflammation of the prostate) and benign prostatic hyperplasia (BPH). PSA test done along with free PSA provides additional information. Studies have suggested that the percentage of free PSA in total PSA is lower in patients with prostate cancer than those with benign prostate hyperplasia.

Specification:

Precision: Intra assay (%CV): 4.38%, Inter assay (%CV): 4.67%; Sensitivity: 0.01 ng/ml

Kit validation references:

Wang MC, Valenzuala LA, Murphy GP, and Chu TM. Purification of a human prostate-specific antigen. Invest. Urol. 1979; 17: 159

Please correlate with clinical conditions.
Method:- TWO SITE SANDWICH IMMUNOASSAY

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 15 Mar 2023 03:17
Report Released on (RRT) : 15 Mar 2023 06:32
Sample Type : SERUM
Labcode : 1403134268/HCL04
Barcode : AR559203

Dr Saakshi Mittal MD(Path)

Dr Preet Kaur MD(Path)

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

SAMPLE COLLECTED AT :
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PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
TOTAL CHOLESTEROL	PHOTOMETRY	191	mg/dl	< 200
HDL CHOLESTEROL - DIRECT	PHOTOMETRY	41	mg/dl	40-60
HDL / LDL RATIO	**CALCULATED**	**0.32**	**Ratio**	**> 0.40**
LDL CHOLESTEROL - DIRECT	**PHOTOMETRY**	**130**	**mg/dl**	**< 100**
TRIG / HDL RATIO	**CALCULATED**	**3.51**	**Ratio**	**< 3.12**
TRIGLYCERIDES	PHOTOMETRY	146	mg/dl	< 150
TC/ HDL CHOLESTEROL RATIO	CALCULATED	4.6	Ratio	3 - 5
LDL / HDL RATIO	CALCULATED	3.1	Ratio	1.5-3.5
VLDL CHOLESTEROL	CALCULATED	29.1	mg/dl	5 - 40

Please correlate with clinical conditions.

Method :

CHOL - CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE
HCHO - DIRECT ENZYMATIC COLORIMETRIC
HD/LD - DERIVED FROM HDL AND LDL VALUES.
LDL - DIRECT MEASURE
TRI/H - DERIVED FROM TRIG AND HDL VALUES
TRIG - ENZYMATIC, END POINT
TC/H - DERIVED FROM SERUM CHOLESTEROL AND HDL VALUES
LDL/ - DERIVED FROM SERUM HDL AND LDL VALUES
VLDL - DERIVED FROM SERUM TRIGLYCERIDE VALUES

***REFERENCE RANGES AS PER NCEP ATP III GUIDELINES:**

TOTAL CHOLESTEROL	(mg/dl)	HDL	(mg/dl)	LDL	(mg/dl)	TRIGLYCERIDES	(mg/dl)
DESIRABLE	<200	LOW	<40	OPTIMAL	<100	NORMAL	<150
BORDERLINE HIGH	200-239	HIGH	>60	NEAR OPTIMAL	100-129	BORDERLINE HIGH	150-199
HIGH	>240			BORDERLINE HIGH	130-159	HIGH	200-499
				HIGH	160-189	VERY HIGH	>500
				VERY HIGH	>190		

Alert !!! 10-12 hours fasting is mandatory for lipid parameters. If not, values might fluctuate.

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 15 Mar 2023 03:17
Report Released on (RRT) : 15 Mar 2023 06:32
Sample Type : SERUM
Labcode : 1403134268/HCL04
Barcode : AR559203

Dr Saakshi Mittal MD(Path)

Dr Preet Kaur MD(Path)

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

SAMPLE COLLECTED AT :
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PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
ALKALINE PHOSPHATASE	PHOTOMETRY	79.11	U/L	45-129
BILIRUBIN - TOTAL	PHOTOMETRY	0.65	mg/dl	0.3-1.2
BILIRUBIN -DIRECT	PHOTOMETRY	0.19	mg/dl	< 0.3
BILIRUBIN (INDIRECT)	CALCULATED	0.46	mg/dl	0-0.9
SGOT / SGPT RATIO	CALCULATED	0.56	Ratio	< 2
ASPARTATE AMINOTRANSFERASE (SGOT)	PHOTOMETRY	31.54	U/l	< 35
ALANINE TRANSAMINASE (SGPT)	**PHOTOMETRY**	**56.48**	**U/l**	**< 45**
PROTEIN - TOTAL	PHOTOMETRY	7.49	gm/dl	5.7-8.2
ALBUMIN - SERUM	**PHOTOMETRY**	**5.13**	**gm/dl**	**3.2-4.8**
SERUM GLOBULIN	**CALCULATED**	**2.36**	**gm/dL**	**2.5-3.4**
SERUM ALB/GLOBULIN RATIO	**CALCULATED**	**2.17**	**Ratio**	**0.9 - 2**

Please correlate with clinical conditions.

Method :

ALKP - MODIFIED IFCC METHOD
BILT - VANADATE OXIDATION
BILD - VANADATE OXIDATION
BILI - DERIVED FROM SERUM TOTAL AND DIRECT BILIRUBIN VALUES
OT/PT - DERIVED FROM SGOT AND SGPT VALUES.
SGOT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
SGPT - IFCC* WITHOUT PYRIDOXAL PHOSPHATE ACTIVATION
PROT - BIURET METHOD
SALB - ALBUMIN BCG¹METHOD (COLORIMETRIC ASSAY ENDPOINT)
SEGB - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES
A/GR - DERIVED FROM SERUM ALBUMIN AND PROTEIN VALUES

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Report Released on (RRT) : 15 Mar 2023 06:32
Sample Type : SERUM
Labcode : 1403134268/HCL04
Barcode : AR559203

Dr Saakshi Mittal MD(Path)

Dr Preet Kaur MD(Path)

PROCESSED AT :

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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

SAMPLE COLLECTED AT :
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HCL HEALTHCARE,GATE 4, PLOT 3A, SECTOR-126,
NOIDA, UP - 201301, INDIA-201301

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS	REFERENCE RANGE
THYROID STIMULATING HORMONE (TSH)	C.L.I.A	3.96	µIU/ml	0.3-5.5
FREE TRIIODOTHYRONINE (FT3)	C.L.I.A	3.35	pg/ml	1.7-4.2
FREE THYROXINE (FT4)	C.L.I.A	1.29	ng/dl	0.7-1.8

Comments : SUGGESTING THYRONORMALCY

Please correlate with clinical conditions.

Method :

TSH - Sandwich Chemi Luminescent Immuno Assay
FT3 - Competitive Chemi Luminescent Immuno Assay
FT4 - Competitive Chemi Luminescent Immuno Assay

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NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
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PATIENTID : VK21292241
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SAMPLE COLLECTED AT :
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PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS	NORMAL RANGE
CALCIUM	PHOTOMETRY	10	mg/dl	8.8-10.6
URIC ACID	**PHOTOMETRY**	**8.3**	**mg/dl**	**4.2 - 7.3**
UREA (CALCULATED)	CALCULATED	20.97	mg/dL	Adult : 17-43
BLOOD UREA NITROGEN (BUN)	PHOTOMETRY	9.8	mg/dL	7.04-20.07
UREA / SR.CREATININE RATIO	CALCULATED	36.79	Ratio	< 52
CREATININE - SERUM	**PHOTOMETRY**	**0.57**	**mg/dl**	**0.72-1.18**
BUN / SR.CREATININE RATIO	CALCULATED	17.19	Ratio	9:1-23:1

Please correlate with clinical conditions.

Method :

CALC - ARSENAZO III METHOD, END POINT.
URIC - URICASE / PEROXIDASE METHOD
UREAC - DERIVED FROM BUN VALUE.
BUN - KINETIC UV ASSAY.
UR/CR - DERIVED FROM UREA AND SR.CREATININE VALUES.
SCRE - CREATININE ENZYMATIC METHOD
B/CR - DERIVED FROM SERUM BUN AND CREATININE VALUES

Sample Collected on (SCT) : 14 Mar 2023 08:00
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PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS
EST. GLOMERULAR FILTRATION RATE (eGFR)	CALCULATED	136	mL/min/1.73 m2

Reference Range :-

> = 90 : Normal
60 - 89 : Mild Decrease
45 - 59 : Mild to Moderate Decrease
30 - 44 : Moderate to Severe Decrease
15 - 29 : Severe Decrease

Clinical Significance

The normal serum creatinine reference interval does not necessarily reflect a normal GFR for a patient. Because mild and moderate kidney injury is poorly inferred from serum creatinine alone. Thus, it is recommended for clinical laboratories to routinely estimate glomerular filtration rate (eGFR), a "gold standard" measurement for assessment of renal function, and report the value when serum creatinine is measured for patients 18 and older, when appropriate and feasible. It cannot be measured easily in clinical practice, instead, GFR is estimated from equations using serum creatinine, age, race and sex. This provides easy to interpret information for the doctor and patient on the degree of renal impairment since it approximately equates to the percentage of kidney function remaining. Application of CKD-EPI equation together with the other diagnostic tools in renal medicine will further improve the detection and management of patients with CKD.

Reference

Levey AS, Stevens LA, Schmid CH, Zhang YL, Castro AF, 3rd, Feldman HI, et al. A new equation to estimate glomerular filtration rate. Ann Intern Med. 2009;150(9):604-12.

Please correlate with clinical conditions.
Method:- CKD-EPI Creatinine Equation

Sample Collected on (SCT) : 14 Mar 2023 08:00
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Report Released on (RRT) : 15 Mar 2023 06:32
Sample Type : SERUM
Labcode : 1403134268/HCL04
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REPORT

NAME : VIVEK KUMAR (32Y/M)
REF. BY : HCL
TEST ASKED : BLOOD SUGAR (F),COMPLETE URINE ANALYSIS,HbA1c

PATIENTID : VK21292241
MOBILE NO : 8750200587
DOB : 06/22/1990

SAMPLE COLLECTED AT :
HCL HEALTHCARE NOIDA SEZ CORPORATE CENTER,
HCL HEALTHCARE,GATE 4, PLOT 3A,
SECTOR-126, NOIDA, UP - 201301,
INDIA-201301

PAN ID : HN1-20397

TEST NAME	TECHNOLOGY	VALUE	UNITS
VITAMIN D2	LC-MS/MS	0.63	ng/mL
Method : LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY			
VITAMIN D3	LC-MS/MS	11.42	ng/mL
Method : LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY			
VITAMIN D TOTAL	**LC-MS/MS**	**12.05**	**ng/mL**

Reference Range :
Deficiency : <20 ng/mL
Insufficiency : 20-30 ng/mL
Sufficiency : 30-100 ng/mL
Toxicity : >100 ng/mL
Method : LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY

Please correlate with clinical conditions.

~~ End of report ~~

Sample Collected on (SCT) : 14 Mar 2023 08:00
Sample Received on (SRT) : 15 Mar 2023 03:17
Report Released on (RRT) : 15 Mar 2023 06:32
Sample Type : SERUM
Labcode : 1403134268/HCL04
Barcode : AR559203

Dr Saakshi Mittal MD(Path)

Dr Preet Kaur MD(Path)

CONDITIONS OF REPORTING

- The reported results are for information and interpretation of the referring doctor only.
- It is presumed that the tests performed on the specimen belong to the patient; named or identified.
- Results of tests may vary from laboratory to laboratory and also in some parameters from time to time for the same patient.
- Should the results indicate an unexpected abnormality, the same should be reconfirmed.
- Only such medical professionals who understand reporting units, reference ranges and limitations of technologies should interpret results.
- This report is not valid for medico-legal purpose.
- Neither Thyrocare, nor its employees/representatives assume any liability, responsibility for any loss or damage that may be incurred by any person as a result of presuming the meaning or contents of the report.

EXPLANATIONS

- Majority of the specimen processed in the laboratory are collected by Pathologists and Hospitals we call them as "Clients".
- **Name** - The name is as declared by the client and recored by the personnel who collected the specimen.
- **Ref.Dr** - The name of the doctor who has recommended testing as declared by the client.
- **Labcode** - This is the accession number in our laboratory and it helps us in archiving and retrieving the data.
- **Barcode** - This is the specimen identity number and it states that the results are for the specimen bearing the barcode (irrespective of the name).
- **SCP** - Specimen Collection Point - This is the location where the blood or specimen was collected as declared by the client.
- **SCT** - Specimen Collection Time - The time when specimen was collected as declared by the client.
- **SRT** - Specimen Receiving Time - This time when the specimen reached our laboratory.
- **RRT** - Report Releasing Time - The time when our pathologist has released the values for Reporting.
- **Reference Range** - Means the range of values in which 95% of the normal population would fall.