

Laboratory Investigation Report

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

BLOOD CENTRE**Max Fertility panel-Male (extended)****Blood Grouping and RH Factor*, EDTA**

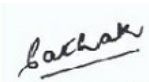
Date **18/Jan/2024**
08:34AM

Unit **Bio Ref Interval**

Blood Group **B POSITIVE**
Haemagglutination

Kindly correlate with clinical findings

*** End Of Report ***



Dr. Sangeeta Pathak, DIHBT
Head-Transfusion Med

Test Performed at :1103 - Max Hospital Saket(East Block), 1, 2, Press Enclave Marg, Saket Institutional Area, Saket, New Delhi
Booking Centre :5081 - Max Hospital - Gurugram, Opposite HUDA City Centre Metro Station, B - Block, 9911444185
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Max Lab Limited (A Wholly Owned Subsidiary of Max Healthcare Institute Ltd.)

Max Super Speciality Hospital, Saket (West Block), 1, Press Enclave Road, Saket, New Delhi - 110 017, Phone: +91-11-6611 5050

(CIN No.: U85100DL2021PLC381826)

📞 Helpline No. 7982 100 200 🌐 www.maxlab.co.in ✉ feedback@maxlab.co.in

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Clinical Biochemistry**Max Fertility panel-Male (extended)****Fasting Blood Sugar (Glucose) , (FBS), Fluoride Plasma**

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Glucose (Fasting) Hexokinase	111	mg/dL	74 - 99

Kindly correlate with clinical findings

***** End Of Report *****Dr. Akash Banwari, M.D. (Path)
Principal ConsultantDr. Jyoti Singhal, M.D. (Pathology)
Senior Resident

Test Performed at :585 - Max Lab Sector-44, Gurugram, Delta Tower Plot No.-54, Sector-44,
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Hematology
Max Fertility panel-Male (extended)

Complete Haemogram, Peripheral Smear and ESR, EDTA

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Haemoglobin	15.4	g/dl	13.0 - 17.0
Modified cyanmethemoglobin			
Packed Cell, Volume	47.2	%	40-50
Calculated			
Total Leucocyte Count (TLC)	7.3	10~9/L	4.0-10.0
Electrical Impedance			
RBC Count	5.44	10~12/L	4.5-5.5
Electrical Impedance			
MCV	86.8	fL	83-101
Electrical Impedance			
MCH	28.4	pg	27-32
Calculated			
MCHC	32.7	g/dl	31.5-34.5
Calculated			
Platelet Count	218	10~9/L	150-410
Electrical Impedance			
MPV	10.9	fL	7.8-11.2
Calculated			
RDW	14.7	%	11.5-14.5
Calculated			

Differential Cell Count

VCS / Light Microscopy

Neutrophils	50.8	%	40-80
Lymphocytes	37.7	%	20-40
Monocytes	7.1	%	2-10
Eosinophils	4.0	%	1-6
Basophils	0.4	%	0-2

Absolute Leukocyte Count

Calculated from TLC & DLC

Absolute Neutrophil Count	3.71	10~9/L	2.0-7.0
Absolute Lymphocyte Count	2.8	10~9/L	1.0-3.0
Absolute Monocyte Count	0.52	10~9/L	0.2-1.0
Absolute Eosinophil Count	0.29	10~9/L	0.02-0.5
Absolute Basophil Count	0.03	10~9/L	0.02-0.1
ESR (Modified Westergren)	2	mm/hr	<=10

Peripheral Smear

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Hematology**Max Fertility panel-Male (extended)****Examination**

RBC: - Normocytic Normochromic
WBC: - Counts within normal limits
Platelet: - Adequate

Kindly correlate with clinical findings

*** End Of Report ***



Dr. Akash Banwari, M.D. (Path)
Principal Consultant



Dr. Jyoti Singhal, M.D. (Pathology)
Senior Resident

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Clinical Biochemistry
Max Fertility panel-Male (extended)

Creatinine, Serum

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Creatinine	1.06	mg/dL	0.9 - 1.3
Alkaline picrate kinetic			
eGFR by MDRD	79.03	ml/min/1.73 m ²	
MDRD			
eGFR by CKD EPI 2021	92.60		

Ref. Range

eGFR - Estimated Glomerular Filtration Rate is calculated by MDRD equation which is most accurate for GFRs ≤ 60 ml / m / 1.73 m². MDRD equation is **used for adult population only**.

Category	Ref Interval (ml / min / 1.73 m ²)	Condition
G1	≥ 90	Normal or High
G2	60 - 89	Mildly Decreased
G3a	45 - 59	Mildly to Moderately Decreased
G3b	30 - 44	Moderately to Severly Decreased
G4	15 - 29	Severly Decreased
G5	< 15	Kidney failure

Kindly correlate with clinical findings

*** End Of Report ***



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SEROLOGY SPECIAL.**Max Fertility panel-Male (extended)****Free Testosterone, Serum**

CLIA

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Free Testosterone	20.56	pg/mL	15 - 50

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

Test Performed at :910 - Max Hospital - Saket M S S H, Press Enclave Road, Mandir Marg, Saket, New Delhi, Delhi 110017

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MC-2714

Laboratory Investigation Report

Patient Name	Centre
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Immunoassay
Max Fertility panel-Male (extended)

FSH - Follicle Stimulating Hormone, Serum*

Date	18/Jan/2024	Unit	Bio Ref Interval
	08:34AM		
Follicle Stimulating Hormone	3.52	mlU/mL	
CLIA			

Ref. Range

Adult Male	1.27 - 19.26
Adult Female :	
Follicular	3.85 - 8.78
Midcycle Peak	4.54 - 22.51
Luteal Phase	1.79 - 5.12
Post Menopausal (>50 Yrs)	16.74 - 113.59

Interpretation

Increased in primary gonadal failure, ovarian or testicular agenesis, Klinefelter's syndrome, Reifenstein's syndrome, castration, alcoholism, menopause, orchitis, gonadotropin-secreting pituitary tumors.

Decreased in anterior hypofunction, hypothalamic disorders, pregnancy, anorexia nervosa, polycystic ovarian disease, hemochromatosis, sickle cell anaemia, severe illness, hyperprolactinemia.

Pooled samples are advisable due to episodic, diurnal and cyclic variations in gonadotropin secretion.

Laboratory Investigation Report

Patient Name	Centre
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Immunoassay
Max Fertility panel-Male (extended)

LH-Luteinizing Hormone , Serum*

Date	18/Jan/2024	Unit	Bio Ref Interval
	08:34AM		
Luteinizing Hormone	4.00	mIU/mL	
CLIA			

Ref Range

LH(Male-Adult)	Reference Range
	1.24-8.62
LH (Female-Adult)	
Follicular	2.12-10.89
Mid Cycle Peak	19.18-103.03
Luteal Phase	1.2-12.86
Post Menopausal (>50 Year)	10.87-58.64

Interpretation

Increased in Primary gonadal dysfunction, polycystic ovarian syndrome (LH/FSH ratio is high in 60% cases), post-menopause, and pituitary adenoma.
 Decreased in pituitary or hypothalamic impairment, isolated gonadotropic deficiency associated with anosmia or hyposmia (Kallmann's syndrome), anorexia nervosa, isolated LH deficiency ("fertile eunuch"), sever stress, malnutrition, and sever illness.
 Pooled samples are advisable due to episodic, diurnal and cyclic variations in gonadotropin secretion.

Kindly correlate with clinical findings

*** End Of Report ***



Dr. Akash Banwari, M.D. (Path)
Principal Consultant



Dr. Jyoti Singhal, M.D. (Pathology)
Senior Resident

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Clinical Biochemistry
Max Fertility panel-Male (extended)

SGPT - Alanine Amino Transferase, Serum

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
SGPT- Alanine Transaminase (ALT) UV without P5P	62	U/L	< 50

Interpretation

Increased in Acute Liver Cell necrosis of any cause, severe shock right heart failure, acute anoxia (e.g. status asthmaticus), extensive trauma and left heart failure.

Kindly correlate with clinical findings

*** End Of Report ***



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Principal Consultant



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Immunoassay
Max Fertility panel-Male (extended)

Testosterone, Total, Serum

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Testosterone (total) CLIA	4.79	ng/mL	1.75-7.81

Interpretation Increase in Idiopathic sexual precocity and adrenal hyperplasia in boys, some adrenocortical tumors, extragonadal tumors producing gonadotropin in men, trophoblastic disease during pregnancy, testicular feminization, idiopathic hirsutism, virilizing ovarian tumors, arrhenoblastoma, hilar cell tumor, and virilizing luteoma.

Secretion is episodic, with peak about 7:00 AM and minimum about 8:00 PM; pooled samples are more reliable.

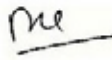
Decreased in Down syndrome, uremia, myotonic dystrophy, hepatic insufficiency, cryptorchidism, primary and secondary hypogonadism, and delayed puberty in boys.

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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Patient Name	Centre
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Immunoassay
Max Fertility panel-Male (extended)

Thyroid Stimulating Hormone (TSH) - Ultrasensitive, Serum

Date	18/Jan/2024	Unit	Bio Ref
	08:34AM		Interval
Thyroid Stimulating Hormone CLIA	4.60	μIU/mL	0.38 - 5.33

Interpretation

Parameter	Unit	Premature (28 - 36 Weeks)	Cord Blood (> 37 weeks)	Upto 2 Month	Adult	1st Trimester	2nd Trimester	3rd Trimester
TSH	uIU/ml	0.7 - 27.0	2.3 - 13.2	0.5 - 10	0.38 - 5.33	0.05 - 3.7	0.31 - 4.35	0.41 - 5.18

Increased in primary Hypothyroidism.
Decreased in primary Hyperthyroidism

Note : TSH levels are subject to circadian variation, reaching peak levels between 2 – 4 am and at a minimum between 6 – 10 pm. The variation is of the order of 50% - 206 %, hence time of the day has influence on the measured serum TSH concentrations.

Kindly correlate with clinical findings

*** End Of Report ***



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Principal Consultant



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Senior Resident

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Clinical Biochemistry
Max Fertility panel-Male (extended)

Urea, Serum

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
Urea Urease, UV	31.0	mg/dL	17.0 - 43.0

Kindly correlate with clinical findings

*** End Of Report ***



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Clinical Pathology
Max Fertility panel-Male (extended)

Urine Routine And Microscopy

Date	18/Jan/2024 08:34AM	Unit	Bio Ref Interval
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Macroscopy

Colour	Pale Yellow		Pale Yellow
Visual Observation/ Automated			
PH	5.5	..	5-6
Double Indicator			
Specific Gravity	>=1.030		1.015 - 1.025
pKa change			
Protein	Neg		Nil
Protein-error of indicators			
Glucose.	Neg		Nil
Enzyme Reaction			
Ketones	Neg		Nil
Acetoacetic Reaction			
Blood	Neg		Nil
Benzidine Reaction			
Bilirubin	Neg		Nil
Diazo Reaction			
Urobilinogen	Normal		Normal
Ehrlichs Reaction			
Nitrite	Neg		
Conversion of Nitrate			

Microscopy

Red Blood Cells (RBC)	0	/HPF	Nil
Light Microscopy/Image capture microscopy			
White Blood Cells	0	/HPF	0.0-5.0
Light Microscopy/Image capture microscopy			
Squamous Epithelial Cells	1	/HPF	
Light Microscopy/Image capture microscopy			
Cast	Nil	/LPF	Nil
Light Microscopy/Image capture microscopy			
Crystals	Nil	..	Nil
Light Microscopy/Image capture microscopy			
Bacteria	Nil	/HPF	Nil

Test Performed at :585 - Max Lab Sector-44, Gurugram, Delta Tower Plot No.-54, Sector-44,
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Laboratory Investigation Report

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

Clinical Pathology
Max Fertility panel-Male (extended)Light Microscopy/Image capture
microscopy

Kindly correlate with clinical findings

***** End Of Report *******Dr. Akash Banwari, M.D. (Path)**
Principal Consultant**Dr. Jyoti Singhal, M.D. (Pathology)**
Senior Resident

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(CIN No.: U85100DL2021PLC381826)

📞 Helpline No. 7982 100 200 🌐 www.maxlab.co.in ✉ feedback@maxlab.co.in

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.

Laboratory Investigation Report

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


Hematology
Max Fertility panel-Male (extended)

Test Name	Result	Unit	Bio Ref Interval
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Semen Analysis
Semen Analysis

Abstinence	03	Days	2-7
Collection Time	08:25 am		
Method of Collection	Masturbation		
Examination time	09:05 am		

Semen Data

Volume:	02	ml	1.3-1.5
Odour	Spermine		
Colour-	Normal Grey Opalescent		
<small>Visual Observation/ Automated</small>			
Viscosity	Normal		
Liquefaction Time	40	min	Complete in 30 Min
PH:	7.5	..	7.2-8.0
Agglutination	PRESENT		
Semen Fructose.	PRESENT		Present
<small>Seliwanoff Test</small>			
Round Cells/Pus cells	2 - 4	/HPF	

Sperm Data

Concentration	45	Million/ml	12.0-16.0
<small>Manual Neubauer Chamber</small>			
Total Sperm Count/Ejaculate	90	Million per ejaculate	35.0-40.0
<small>Calculated</small>			
Total percent motility	40	%	40 -43
<small>Light Microscopy</small>			
Progressive motile	15	%	29 - 31
<small>Light Microscopy</small>			
Immotile	60	%	19 - 20
<small>Light Microscopy</small>			
Sperm Morphology	45	Normal forms %	3.9 - 4.0
<small>Light Microscopy</small>			

Comment

Above mentioned reference ranges are the lower reference interval.

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Laboratory Investigation Report

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

Hematology
Max Fertility panel-Male (extended)


SIN No:GGN275500

Test Name	Result	Unit	Bio Ref Interval
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Kindly correlate with clinical findings

*** End Of Report ***



Dr. Akash Banwari, M.D. (Path)
Principal Consultant



Dr. Jyoti Singhal, M.D. (Pathology)
Senior Resident

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Laboratory Investigation Report

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

Microbiology
Max Fertility panel-Male (extended)

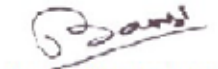
**Semen - Culture & Sensitivity**

Method : Culture/ID & Sensitivity by Vitek 2

Result: No growth.
Interpretation: Sterile after Overnight/24 hours of aerobic incubation at 37 degree C.

Kindly correlate with clinical findings

*** End Of Report ***



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



Dr. Sonu Kumari Agrawal, MD
Associate Consultant
Microbiology



Dr Nidhi Malik, MD
Consultant Microbiology

BookingCentreAddress :5081 - Max Hospital - Gurugram, Opposite HUDA City Centre Metro Station, B - Block, 9911444185
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Test Performed at :910 - Max Hospital - Saket M S S H, Press Enclave Road, Mandir Marg, Saket, New Delhi, Delhi 110017

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