

Dr. Vinay Chopra  
 MD (Pathology & Microbiology)  
 Chairman & Consultant Pathologist

Dr. Yugam Chopra  
 MD (Pathology)  
 CEO & Consultant Pathologist

<b>NAME</b>	: Mr. RAKESH	<b>PATIENT ID</b>	: 1716540
<b>AGE/ GENDER</b>	: 34 YRS/MALE	<b>REG. NO./LAB NO.</b>	: 012501050037
<b>COLLECTED BY</b>	:	<b>REGISTRATION DATE</b>	: 05/Jan/2025 01:11 PM
<b>REFERRED BY</b>	: LOOMBA HOSPITAL (AMBALA CANTT)	<b>COLLECTION DATE</b>	: 05/Jan/2025 01:23PM
<b>BARCODE NO.</b>	: 01523483	<b>REPORTING DATE</b>	: 05/Jan/2025 04:18PM
<b>CLIENT CODE.</b>	: KOS DIAGNOSTIC LAB		
<b>CLIENT ADDRESS</b>	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
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### CLINICAL PATHOLOGY

#### SEMEN ANALYSIS/SEMINOGRAM

#### PHYSICAL EXAMINATION

TIME OF SPECIMEN COLLECTION	05-01-2025	AM/PM	
DURATION OF ABSTINENCE	3 DAYS	DAYS	2 - 7
TYPE OF SAMPLE	FRESH		
LIQUIFACTION TIME AT 37°C	< 30 MINS	MINS	30 - 60
VOLUME	1	ML	
COLOUR	WHITISH OPAQUE		WHITISH OPAQUE
VISCOSITY	VISCOUS		VISCOUS
pH	7.5		5.0 - 7.5

#### AUTOMMATED SEMEN ANALYSIS, GOLD STANDARD, WHO APPROVED (SQA GOLD)

TOTAL SPERM CONCENTRATION	191.5	Millions/mL	12 - 16
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL MOTILITY (GRADE A + GRABE B + GRADE C)	38	%	> = 42.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
RAPIDLY PROGRESSIVE MOTILITY (GRADE A)	16	%	> = 30.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
SLOWLY PROGRESSIVE MOTILITY (GRADE B)	14	%	>= 30
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
NON PROGRESSIVE MOTILITY (GRADE C)	8	%	<= 1
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
IMMOTILE	62	%	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
MORPHOLOGY NORMAL	5	%	> = 4.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
MOTILE SPERM CONCENTRATION	72.6	Millions/mL	> = 6.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION	31.6	Millions/mL	> = 5.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION	27.6	Millions/mL	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
FUNCTIONAL SPERM CONCENTRATION	7.3	Millions/mL	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			



  
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VELOCITY (AVERAGE PATH VELOCITY) <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	41	Mic/sec	> = 5
SPERM MOTILE INDEX (SMI) <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	208		> = 80
<b>TOTAL PER EJACULATION</b>			
TOTAL SPERM NUMBER <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	191.5	Millions/ejc.	> = 39.0
TOTAL MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	72.6	Millions/ejc.	> = 16.0
TOTAL PROGRESSIVE MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	59.2	Millions/ejc.	> = 12.0
TOTAL FUNCTIONAL SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	7.3	Millions/ejc.	
TOTAL MORPHOLOGY NORMAL SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	9.6	Millions/ejc.	> = 2.0
<b>MANUAL MICROSCOPY AND MORPHOLOGY</b>			
VITALITY <i>by MICROSCOPY</i>	66	%	
RED BLOOD CELLS (RBCs) <i>by MICROSCOPY</i>	NOT DETECTED	/HPF	NOT DETECTED
PUS CELLS <i>by MICROSCOPY</i>	4-5	/HPF	0 - 5
AGGLUTINATES <i>by MICROSCOPY</i>	NOT DETECTED		NOT DETECTED
AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS <i>by MICROSCOPY</i>	NOT DETECTED		NOT DETECTED
BACTERIA <i>by MICROSCOPY</i>	NEGATIVE (-ve)		NEGATIVE (-ve)
HEAD DEFECTS <i>by MICROSCOPY</i>	38	%	
PIN HEADS <i>by MICROSCOPY</i>	9	%	
NECK AND MID-PIECE DEFECTS <i>by MICROSCOPY</i>	27	%	
TAIL DEFECTS <i>by MICROSCOPY</i>	18	%	
CYTOPLASMIC DROPLETS	2	%	



  
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by MICROSCOPY  
 ACROSOME/NUCLEUS DEFECTS

1 %

**CHEMICAL EXAMINATION**

**SEMEN FRUCTOSE (QUALITATIVE)**  
 by QUALITATIVE METHOD USING RESORCINOL

**POSITIVE (+ve)**

**POSITIVE (+ve)**

**INTERPRETATION:**

1. Fructose is the energy source for sperm motility. A positive fructose is considered normal.  
 2. Azoospermia and fructose negative results may indicate an absence of seminal vesicles / vas deferens in the area of seminal vesicles / obstruction of seminal vesicles.



  
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## MICROBIOLOGY

### CULTURE AEROBIC BACTERIA AND ANTIBIOTIC SENSITIVITY: SEMEN

#### CULTURE AND SUSCEPTIBILITY - SEMEN

DATE OF SAMPLE : 05-01-2025  
 SPECIMEN SOURCE : SEMEN  
 INCUBATION PERIOD : 48 HOURS  
 CULTURE : STERILE  
 by AUTOMATED BROTH CULTURE

ORGANISM : NO AEROBIC PYOGENIC ORGANISM GROWN AFTER 48 HOURS OF  
 by AUTOMATED BROTH CULTURE INCUBATION AT 37°C

#### AEROBIC SUSCEPTIBILITY - SEMEN

##### INTERPRETATION

##### SUSCEPTIBILITY:

1. A test interpreted as **SENSITIVE** implies that infection due to isolate may be appropriately treated with the dosage of an antimicrobial agent recommended for that type of infection and infecting species, unless otherwise indicated.
2. A test interpreted as **INTERMEDIATE** implies that the "Infection due to the isolate may be appropriately treated in body sites where the drugs are physiologically concentrated or when a high dosage of drug can be used".
3. A test interpreted as **RESISTANT** implies that the "isolates are not inhibited by the usually achievable concentration of the agents with normal dosage, schedule and/or fall in the range where specific microbial resistance mechanism are likely (e.g. beta-lactamases), and clinical efficacy has not been reliable in treatment studies.

##### CAUTION:

Conditions which can cause a false Negative culture:

1. Patient is on antibiotics. Please repeat culture post therapy.
2. Anaerobic bacterial infection.
3. Fastidious aerobic bacteria which are not able to grow on routine culture media.
4. Besides all these factors, at least in 25-40 % of cases there is no direct correlation between in vivo clinical picture.
5. Renal tuberculosis to be confirmed by AFB studies

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





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