

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

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

<b>NAME</b>	: Mr. DAVINDER SINGH	<b>PATIENT ID</b>	: 1697984
<b>AGE/ GENDER</b>	: 25 YRS/MALE	<b>REG. NO./LAB NO.</b>	: 012412130022
<b>COLLECTED BY</b>	:	<b>REGISTRATION DATE</b>	: 13/Dec/2024 10:53 AM
<b>REFERRED BY</b>	:	<b>COLLECTION DATE</b>	: 13/Dec/2024 11:42AM
<b>BARCODE NO.</b>	: 01522397	<b>REPORTING DATE</b>	: 17/Dec/2024 05:40PM
<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	17-12-2024	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	<b>gH</b>		5.0 - 7.5

**AUTOMATED SEMEN ANALYSIS, GOLD STANDARD, WHO APPROVED (SQA GOLD)**

TOTAL SPERM CONCENTRATION	89.4	Millions/mL	12 - 16
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
TOTAL MOTILITY (GRADE A + GRADE B + GRADE C)	16	%	> = 42.0
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
RAPIDLY PROGRESSIVE MOTILITY (GRADE A)	1	%	> = 30.0
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
SLOWLY PROGRESSIVE MOTILITY (GRADE B)	5	%	>= 30
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
NON PROGRESSIVE MOTILITY (GRADE C)	10	%	<= 1
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
IMMOTILE	84	%	
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
MORPHOLOGY NORMAL	1	%	> = 4.0
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
MOTILE SPERM CONCENTRATION	14	Millions/mL	> = 6.0
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION	1	Millions/mL	> = 5.0
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION	4.1	Millions/mL	
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>			
FUNCTIONAL SPERM CONCENTRATION	0.1	Millions/mL	



  
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<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> VELOCITY (AVERAGE PATH VELOCITY)	12	Mic/sec	> = 5
<i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> SPERM MOTILE INDEX (SMI)	25		> = 80
<b><u>TOTAL PER EJACULATION</u></b>			
TOTAL SPERM NUMBER <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	89.4	Millions/ejc.	> = 39.0
TOTAL MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	14	Millions/ejc.	> = 16.0
TOTAL PROGRESSIVE MOTILE SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	5	Millions/ejc.	> = 12.0
TOTAL FUNCTIONAL SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	0.1	Millions/ejc.	
TOTAL MORPHOLOGY NORMAL SPERM <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>	0.9	Millions/ejc.	> = 2.0
<b><u>MANUAL MICROSCOPY AND MORPHOLOGY</u></b>			
VITALITY <i>by MICROSCOPY</i>	68	%	
RED BLOOD CELLS (RBCs) <i>by MICROSCOPY</i>	NOT DETECTED	/HPF	NOT DETECTED
PUS CELLS <i>by MICROSCOPY</i>	8-12	/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>	39	%	
PIN HEADS <i>by MICROSCOPY</i>	11	%	
NECK AND MID-PIECE DEFECTS <i>by MICROSCOPY</i>	26	%	
TAIL DEFECTS <i>by MICROSCOPY</i>	19	%	



  
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CYTOPLASMIC DROPLETS <i>by MICROSCOPY</i>	2	%	
ACROSOME/NUCLEUS DEFECTS <i>by MICROSCOPY</i>	2	%	

**CHEMICAL EXAMINATION**

<b>SEMEN FRUCTOSE (QUALITATIVE)</b> <i>by QUALITATIVE METHOD USING RESORCINOL</i>	<b>POSITIVE (+ve)</b>	<b>POSITIVE (+ve)</b>
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**INTERPRETATION:**

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

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



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