

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

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

NAME : Mr. BIRDEVINDER SINGH  
AGE/ GENDER : 31 YRS/MALE  
COLLECTED BY :  
REFERRED BY : LOOMBA HOSPITAL (AMBALA CANTT)  
BARCODE NO. : 01522216  
CLIENT CODE. : KOS DIAGNOSTIC LAB  
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT  
PATIENT ID : 1684359  
REG. NO./LAB NO. : 012412090037  
REGISTRATION DATE : 09/Dec/2024 12:33 PM  
COLLECTION DATE : 09/Dec/2024 12:45PM  
REPORTING DATE : 09/Dec/2024 04:57PM

Test Name	Value	Unit	Biological Reference interval
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## CLINICAL PATHOLOGY SEMEN ANALYSIS/SEMINOGRAM

### PHYSICAL EXAMINATION

TIME OF SPECIMEN COLLECTION	09-12-2024	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	1.5	ML	
COLOUR	WHITISH OPAQUE		WHITISH OPAQUE
VISCOSITY	VISCOUS		VISCOUS
pH	8 <sup>H</sup>		5.0 - 7.5

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

TOTAL SPERM CONCENTRATION by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	18.4	Millions/mL	12 - 16
TOTAL MOTILITY (GRADE A + GRABE B + GRADE C) by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	52	%	> = 42.0
RAPIDLY PROGRESSIVE MOTILITY (GRADE A) by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	6	%	> = 30.0
SLOWLY PROGRESSIVE MOTILITY (GRADE B) by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	18	%	>= 30
NON PROGRESSIVE MOTILITY (GRADE C) by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	28	%	<= 1
IMMOTILE by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	48	%	
MORPHOLOGY NORMAL by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	4	%	> = 4.0
MOTILE SPERM CONCENTRATION by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	9.6	Millions/mL	> = 6.0
RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	1.1	Millions/mL	> = 5.0
SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM	3.4	Millions/mL	
FUNCTIONAL SPERM CONCENTRATION	0.5	Millions/mL	



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by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM VELOCITY (AVERAGE PATH VELOCITY)	17	Mic/sec	> = 5
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM SPERM MOTILE INDEX (SMI)	26		> = 80
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM <b>TOTAL PER EJACULATION</b>			
TOTAL SPERM NUMBER	27.6	Millions/ejc.	> = 39.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM TOTAL MOTILE SPERM	14.4	Millions/ejc.	> = 16.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM TOTAL PROGRESSIVE MOTILE SPERM	6.8	Millions/ejc.	> = 12.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM TOTAL FUNCTIONAL SPERM	0.8	Millions/ejc.	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM TOTAL MORPHOLOGY NORMAL SPERM	1.1	Millions/ejc.	> = 2.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM <b>MANUAL MICROSCOPY AND MORPHOLOGY</b>			
VITALITY	62	%	
by MICROSCOPY RED BLOOD CELLS (RBCs)	NOT DETECTED	/HPF	NOT DETECTED
by MICROSCOPY PUS CELLS	5-8	/HPF	0 - 5
by MICROSCOPY AGGLUTINATES	NOT DETECTED		NOT DETECTED
by MICROSCOPY AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS	NOT DETECTED		NOT DETECTED
by MICROSCOPY BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY HEAD DEFECTS	38	%	
by MICROSCOPY PIN HEADS	9	%	
by MICROSCOPY NECK AND MID-PIECE DEFECTS	27	%	
by MICROSCOPY TAIL DEFECTS	19	%	



  
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CYTOPLASMIC DROPLETS  
 by MICROSCOPY

2 %

ACROSOME/NUCLEUS DEFECTS  
 by MICROSCOPY

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 09-12-2024  
 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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