

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

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

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mr. GURPREET SINGH                   | <b>PATIENT ID</b>        | : 1780696              |
| <b>AGE/ GENDER</b>    | : 28 YRS/MALE                          | <b>REG. NO./LAB NO.</b>  | : 012503060045         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 06/Mar/2025 01:14 PM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 06/Mar/2025 01:15PM  |
| <b>BARCODE NO.</b>    | : 01526575                             | <b>REPORTING DATE</b>    | : 06/Mar/2025 05:00PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

## CLINICAL PATHOLOGY

### SEMEN ANALYSIS/SEMINOGRAM

#### PHYSICAL EXAMINATION

|                             |                |       |                |
|-----------------------------|----------------|-------|----------------|
| TIME OF SPECIMEN COLLECTION | 06-03-2025     | 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                          | 8 <sup>H</sup> |       | 5.0 - 7.5      |

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

|  |      |             |          |
|--|------|-------------|----------|
| TOTAL SPERM CONCENTRATION                                | 24.7 | Millions/mL | 12 - 16  |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| TOTAL MOTILITY (GRADE A + GRADE B + GRADE C)             | 47   | %           | > = 42.0 |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| RAPIDLY PROGRESSIVE MOTILITY (GRADE A)                   | 8    | %           | > = 30.0 |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| SLOWLY PROGRESSIVE MOTILITY (GRADE B)                    | 13   | %           | >= 30    |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| NON PROGRESSIVE MOTILITY (GRADE C)                       | 26   | %           | <= 1     |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| IMMOTILE   | 53   | %           |          |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| MORPHOLOGY NORMAL  | 3    | %           | > = 4.0  |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| MOTILE SPERM CONCENTRATION                               | 6.4  | Millions/mL | > = 6.0  |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION           | 1.1  | Millions/mL | > = 5.0  |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION            | 1.8  | Millions/mL |          |
| <i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> |      |             |          |
| FUNCTIONAL SPERM CONCENTRATION                           | 0.2  | Millions/mL |          |



  
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|--|----------------|---------------|-------------------------------|
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>VELOCITY (AVERAGE PATH VELOCITY)        | 16             | Mic/sec       | > = 5                         |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>SPERM MOTILE INDEX (SMI)                | 24             |               | > = 80                        |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br><b>TOTAL PER EJACULATION</b>            |                |               |                               |
| TOTAL SPERM NUMBER   | 24.7           | Millions/ejc. | > = 39.0                      |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>TOTAL MOTILE SPERM                      | 11.6           | Millions/ejc. | > = 16.0                      |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>TOTAL PROGRESSIVE MOTILE SPERM          | 5.2            | Millions/ejc. | > = 12.0                      |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>TOTAL FUNCTIONAL SPERM                  | 0.2            | Millions/ejc. |                               |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br>TOTAL MORPHOLOGY NORMAL SPERM           | 0.4            | Millions/ejc. | > = 2.0                       |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM<br><b>MANUAL MICROSCOPY AND MORPHOLOGY</b> |                |               |                               |
| VITALITY   | 75             | %             |                               |
| by MICROSCOPY<br>RED BLOOD CELLS (RBCs)  | NOT DETECTED   | /HPF          | NOT DETECTED                  |
| by MICROSCOPY<br>PUS CELLS   | 0-2            | /HPF          | 0 - 5                         |
| by MICROSCOPY<br>AGGLUTINATES  | NOT DETECTED   |               | NOT DETECTED                  |
| by MICROSCOPY<br>AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS                                   | NOT DETECTED   |               | NOT DETECTED                  |
| by MICROSCOPY<br>BACTERIA  | NEGATIVE (-ve) |               | NEGATIVE (-ve)                |
| by MICROSCOPY<br>HEAD DEFECTS  | 36             | %             |                               |
| by MICROSCOPY<br>PIN HEADS   | 11             | %             |                               |
| by MICROSCOPY<br>NECK AND MID-PIECE DEFECTS  | 28             | %             |                               |
| by MICROSCOPY<br>TAIL DEFECTS  | 19             | %             |                               |
| by MICROSCOPY  |                |               |                               |



  
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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.

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



  
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