

**Dr. Vinay Chopra**  
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 Chairman & Consultant Pathologist

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

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mr. LALIT                            | <b>PATIENT ID</b>        | : 1810746              |
| <b>AGE/ GENDER</b>    | : 35 YRS/MALE                          | <b>REG. NO./LAB NO.</b>  | : 012503290039         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 29/Mar/2025 11:35 AM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 29/Mar/2025 11:35AM  |
| <b>BARCODE NO.</b>    | : 01527985                             | <b>REPORTING DATE</b>    | : 29/Mar/2025 05:22PM  |
| <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 | 29-03-2025     | 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                      | 2              | ML    |                |
| COLOUR                      | WHITISH OPAQUE |       | WHITISH OPAQUE |
| VISCOSITY                   | MILDLY VISCOUS |       | VISCOUS        |
| pH                          | 7.5            |       | 5.0 - 7.5      |

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

|  |      |             |          |
|--|------|-------------|----------|
| TOTAL SPERM CONCENTRATION                      | 10.8 | Millions/mL | 12 - 16  |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| TOTAL MOTILITY (GRADE A + GRABE B + GRADE C)   | 25   | %           | > = 42.0 |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| RAPIDLY PROGRESSIVE MOTILITY (GRADE A)         | 2    | %           | > = 30.0 |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| SLOWLY PROGRESSIVE MOTILITY (GRADE B)          | 2    | %           | >= 30    |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| NON PROGRESSIVE MOTILITY (GRADE C)             | 21   | %           | <= 1     |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| IMMOTILE                                       | 75   | %           |          |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| MORPHOLOGY NORMAL                              | 1    | %           | > = 4.0  |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| MOTILE SPERM CONCENTRATION                     | 2.7  | Millions/mL | > = 6.0  |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION | 0.2  | Millions/mL | > = 5.0  |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |
| SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION  | 0    | Millions/mL |          |
| by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM  |      |             |          |



  
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|--|----------------|---------------|-------------------------------|
| FUNCTIONAL SPERM CONCENTRATION<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> | 0              | Millions/mL   |                               |
| SPERM MOTILE INDEX (SMI)<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>       | 4              |               | > = 80                        |
| <b><u>TOTAL PER EJACULATION</u></b>  |                |               |                               |
| TOTAL SPERM NUMBER<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>             | 21.6           | Millions/ejc. | > = 39.0                      |
| TOTAL MOTILE SPERM<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>             | 5.4            | Millions/ejc. | > = 16.0                      |
| TOTAL PROGRESSIVE MOTILE SPERM<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i> | 0.6            | Millions/ejc. | > = 12.0                      |
| TOTAL FUNCTIONAL SPERM<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>         | 0              | Millions/ejc. |                               |
| TOTAL MORPHOLOGY NORMAL SPERM<br><i>by ELECTRO-OPTICS SIGNAL &amp; COMPUTER ALOGRITHM</i>  | 0.2            | Millions/ejc. | > = 2.0                       |
| <b><u>MANUAL MICROSCOPY AND MORPHOLOGY</u></b>   |                |               |                               |
| VITALITY<br><i>by MICROSCOPY</i>   | 40             | %             |                               |
| RED BLOOD CELLS (RBCs)<br><i>by MICROSCOPY</i>   | NOT DETECTED   | /HPF          | NOT DETECTED                  |
| PUS CELLS<br><i>by MICROSCOPY</i>  | 1-3            | /HPF          | 0 - 5                         |
| AGGLUTINATES<br><i>by MICROSCOPY</i>   | NOT DETECTED   |               | NOT DETECTED                  |
| AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS<br><i>by MICROSCOPY</i>                              | NOT DETECTED   |               | NOT DETECTED                  |
| BACTERIA<br><i>by MICROSCOPY</i>   | NEGATIVE (-ve) |               | NEGATIVE (-ve)                |
| HEAD DEFECTS<br><i>by MICROSCOPY</i>   | 39             | %             |                               |
| PIN HEADS<br><i>by MICROSCOPY</i>  | 10             | %             |                               |
| NECK AND MID-PIECE DEFECTS<br><i>by MICROSCOPY</i>   | 27             | %             |                               |
| TAIL DEFECTS<br><i>by MICROSCOPY</i>   | 19             | %             |                               |



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

#### 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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