

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

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

|                       |                                        |                          |                        |
|-----------------------|----------------------------------------|--------------------------|------------------------|
| <b>NAME</b>           | : Mrs. BIMLA                           | <b>PATIENT ID</b>        | : 1821137              |
| <b>AGE/ GENDER</b>    | : 62 YRS/FEMALE                        | <b>REG. NO./LAB NO.</b>  | : 012504070065         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 07/Apr/2025 02:53 PM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 07/Apr/2025 02:54PM  |
| <b>BARCODE NO.</b>    | : 01528542                             | <b>REPORTING DATE</b>    | : 07/Apr/2025 05:31PM  |
| <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 CHEMISTRY/BIOCHEMISTRY

#### ELECTROLYTES COMPLETE PROFILE

|                                                             |        |        |               |
|-------------------------------------------------------------|--------|--------|---------------|
| SODIUM: SERUM<br><i>by ISE (ION SELECTIVE ELECTRODE)</i>    | 142.1  | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUM<br><i>by ISE (ION SELECTIVE ELECTRODE)</i> | 4.17   | mmol/L | 3.50 - 5.00   |
| CHLORIDE: SERUM<br><i>by ISE (ION SELECTIVE ELECTRODE)</i>  | 106.57 | mmol/L | 90.0 - 110.0  |

#### INTERPRETATION:-

##### **SODIUM:-**

Sodium is the major cation of extra-cellular fluid. Its primary function in the body is to chemically maintain osmotic pressure & acid base balance & to transmit nerve impulse.

##### **HYPONATREMIA (LOW SODIUM LEVEL) CAUSES:-**

1. Low sodium intake.
2. Sodium loss due to diarrhea & vomiting with adequate water and inadequate salt replacement.
3. Diuretics abuses.
4. Salt loosing nephropathy.
5. Metabolic acidosis.
6. Adrenocortical insufficiency .
7. Hepatic failure.

##### **HYPERNATREMIA (INCREASED SODIUM LEVEL) CAUSES:-**

1. Hyperapnea (Prolonged)
2. Diabetes insipidus
3. Diabetic acidosis
4. Cushing's syndrome
5. Dehydration

##### **POTASSIUM:-**

Potassium is the major cation in the intracellular fluid. 90% of potassium is concentrated within the cells. When cells are damaged, potassium is released in the blood.

##### **HYPOKALEMIA (LOW POTASSIUM LEVELS):-**

1. Diarrhoea, vomiting & malabsorption.
2. Severe Burns.
3. Increased Secretions of Aldosterone

##### **HYPERKALEMIA (INCREASED POTASSIUM LEVELS):-**

1. Oliguria



*[Signature]*

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2.Renal failure or Shock  
 3.Respiratory acidosis  
 4.Hemolysis of blood

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



  
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