



BML535799

## Laboratory Investigation Report

|                     |                           |                   |                    |
|---------------------|---------------------------|-------------------|--------------------|
| <b>Name</b>         | : Ms. SAWARAN             | <b>Ref No.</b>    | : 34263            |
| <b>DOB</b>          | : 01/08/1996              | <b>Sample No.</b> | : 2503548955       |
| <b>Age / Gender</b> | : 28 Y / Female           | <b>Collected</b>  | : 09/03/2025 20:38 |
| <b>Referred by</b>  | : Dr. AISHA               | <b>Registered</b> | : 09/03/2025 20:40 |
| <b>Centre</b>       | : CITICARE MEDICAL CENTER | <b>Reported</b>   | : 09/03/2025 21:27 |

### IMMUNOLOGY

| Test               | Result | Flag | Unit  | Reference Range                              | Methodology |
|--------------------|--------|------|-------|----------------------------------------------|-------------|
| IGE TOTAL ANTIBODY | 99.2   |      | IU/mL | Refer to Table below in interpretation notes | ECLIA       |

#### INTERPRETATION NOTES :

##### Age – wise Reference Range:

| Age group                                             | IU/mL |
|-------------------------------------------------------|-------|
| Neonates                                              | <1.5  |
| Infants in 1st year of life                           | <15   |
| Children aged 1 - 5 years                             | <60   |
| Children aged 6 - 9 years                             | <90   |
| Children aged 10 - 15 years                           | <200  |
| Adults                                                | <100  |
| Please note change in reference range (Source: Roche) |       |

1. Immunoglobulin E (IgE) is a type of antibody synthesized by plasma cells
2. IgE plays an important role in immunological protection against parasitic infections and in allergy (type 1 hypersensitivity).
3. The IgE concentration in serum is normally very low as IgE is the least abundant antibody in serum (0.05 % of the IgG concentration). The IgE concentration is age-dependent, with the lowest values being measured at birth. Its concentration gradually increases and becomes stabilized between the age of 5-7, although the IgE values vary greatly within particular age groups.
4. Elevated IgE concentrations are seen in patients with Type 1 hypersensitivity reactions such as Anaphylactic reactions (reaction to drugs, bee stings, latex, vaccines, or antigen preparation used in desensitization immunotherapy), allergic diseases such as hay fever, atopic bronchitis, asthma, food allergies, urticaria and dermatitis.
5. Increased IgE concentrations can also occur in non-allergic diseases, e.g. congenital immunodeficiency syndromes, HIV infection, graft-versus- host disease, severe burns, some inflammatory diseases, certain cancers and parasitic diseases.
6. Low IgE levels may be seen in auto-immune disorders.

**Note:** Samples should not be taken from patients receiving therapy with high biotin doses (i.e. > 5 mg/day) until at least 8 hours following the last biotin administration.

#### References:

1. Kit Insert
2. Dati F, Ringel KP. Reference values for serum IgE in healthy non- atopic children and adults. Clin Chem 1982;28(7):1556.
3. Gould HJ, Sutton BJ, Beavil AJ, Beavil RL, McCloskey N, Coker HA, et al. (2003). "The biology of IGE and the basis of allergic disease". Annual Review of Immunology. 21: 579–628

Sample Type : Serum

End of Report

**Dr. Adley Mark Fernandes**  
M.D (Pathology)  
Pathologist

*Gomna V. Shah*  
**Dr. Vyoma V Shah**  
M.D (Pathology)  
Clinical Pathologist

**MOHAMMED RASHID CHENANGADATH**  
Laboratory Technologist

This is an electronically authenticated report

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Test result pertains only to the sample tested and to be interpreted in the light of clinical history. These tests are accredited under ISO 15189:2012 unless specified by (^). Test marked with # is performed in an accredited referral laboratory.

