



BML373582

## Laboratory Investigation Report

|                     |                               |                   |                    |
|---------------------|-------------------------------|-------------------|--------------------|
| <b>Name</b>         | : Ms. ANASTASIYA BIASONAVA    | <b>Ref No.</b>    | : 37218            |
| <b>DOB</b>          | : 11/04/1988                  | <b>Sample No.</b> | : 2403380783       |
| <b>Age / Gender</b> | : 35 Y 11 M / Female          | <b>Collected</b>  | : 21/03/2024 20:00 |
| <b>Referred by</b>  | : Peshawar Medical Center LLC | <b>Registered</b> | : 21/03/2024 23:13 |
| <b>Centre</b>       | : Peshawar Medical Center LLC | <b>Reported</b>   | : 22/03/2024 00:36 |

### IMMUNOLOGY

| Test                     | Result | Flag | Unit  | Reference Range                                                                     | Methodology |
|--------------------------|--------|------|-------|-------------------------------------------------------------------------------------|-------------|
| VITAMIN D, 25-OH (TOTAL) | 26     |      | ng/mL | Deficiency: <20<br>Insufficiency: 20 - <30<br>Sufficiency: 30 - 80<br>Toxicity: >80 | ECLIA       |

#### Interpretation Notes :

Vit D (25 – OH) is the sum of Vit D2 (25 – OH) and Vit D3 (25 – OH). In normal persons not taking external supplements - Vit D3 comprises approximately 90 % of the total.

25 hydroxy (25–OH) vitamin D3 or calcidiol is the storage form of vitamin D3. Deficiency is associated with osteoporosis, multiple sclerosis, and rheumatoid arthritis, and mood disorders. Both Vitamin D2 and Vitamin D3 are converted to 25–OH vitamin D3 in the liver. 25 hydroxy vitamin D3 circulates to the kidney where it is converted to 1, 25 hydroxy vitamins D3 or calcitriol, the functional form of the vitamin.

Calcitriol is vital to calcium regulation and low serum calcium causes release of parathormone which converts 25–OH vitamin D3 to 1, 25 –OH vitamin D3 which then triggers osteolysis releasing calcium into the bloodstream.

Sample Type : Serum

End of Report

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

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

This is an electronically authenticated report

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**SAGAR MURUKESAN PILLAI MOLY**  
Laboratory Technologist  
Printed on: 22/03/2024 21:15

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.

