



25-OH Vitamin D (Total) ...a Boon for Good Health!

First Indian
Company to
manufacture
Vitamin D Test kit
based on
most advanced
fluorescence
immunoassay
method

VITAMIN D QUANTI CARD

Fluorescence immunoassay (antigen-antibody) for the
Quantitative measurement of **25-OH Vitamin D (Total)** in Human Serum

- ▶ **Principle: Based on most advanced fluorescence immunoassay method**
- ▶ **Quantitative detection of 25-OH Vitamin D2 & D3**
- ▶ **Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data. No chip required**
- ▶ **Accurate Results traceable to international standard reference NIST-SRM 972a**
- ▶ **Excellent result correlation with LC-MS/MS**
- ▶ **Results within 15 Minutes after adding prepared sample in the cartridge**
- ▶ **Longer Shelf Life: 18 Months at 2-8°C**
- ▶ **Linearity Range: 4 - 80 ng/ ml**



CONVENIENT PACKSIZE:
10 Tests

Significance of Vitamin D

- Vitamin D is essential for strong bones, muscles and overall health.
- It controls calcium level in body and helps in maintaining bone structure.
- Vitamin D has other roles in the body, including modulation of cell growth, neuromuscular and immune function, and reduction of inflammation.
- It reduces the risk of Skin Cancer, Flu, Cardiovascular diseases, Developing diabetes, Osteoporosis, Autoimmune disease etc.

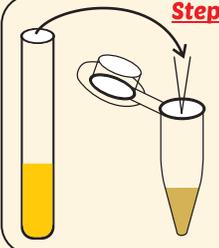
Test Procedure

Step-1



Take 50µl of Releasing Buffer in a fresh micro tube.

Step-2



Add 50µl of serum sample. Mix well by vortexing for 10 sec. using iVortexer and incubate for 8 minutes by placing it in the pre-heated iHeating block.

Step-3



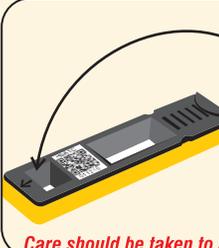
Add 50µl of Stabilizing Buffer and 50µl of Conjugate-A. Mix well by vortexing for 10 sec. and incubate for 15 minutes by placing it in the pre-heated iHeating block.

Step-4



Add 50µl of Conjugate-B to the reaction mixture. Mix well by vortexing for 10 seconds.

Step-5



Quickly load the 50µl of the mixed solution to the sample well of the cartridge and reaction to occur for 15 minutes.

Care should be taken to avoid any spillage on the QR Code.

Step-6



Place the test cartridge in the iQuant Analyzer and Read Result.*

* Result interpretation time, taken by iQuant analyzer for a sample is less than 1 minute, hence more number of tests can be performed in a given time.

Measuring Range

Vitamin D : 4ng/ml to 80 ng/ml

Precision

Within-run and between-run precisions have been determined by testing 10 replicates of 20 Vitamin D samples covering entire measuring range: low, medium & high. The C.V (%) of all the 20 samples was less than 10%.

Accuracy

The results of Vitamin D Quanti Card were in conformity with NIST standards, Standard Reference Material (972a) containing level 1, 2, 3 & 4 for Vitamin D from National Institute of Standards & Technology (NIST), US Department of Commerce, USA. The results are tabulated as follows:

NIST Standard Reference Material (SRM) for Vitamin D metabolites

Levels	Certified Values in NIST SRM 972a (ng/mL)	Value Observed in Vitamin D Quanti Card (ng/mL)	Co-relation
Level 1	28 ± 1.1	29.2	Results with all 4 levels of standards are within defined range and found to be in co-relation.
Level 2	20.20 ± 0.52	19.93	
Level 3	33.1 ± 0.8	32.7	
Level 4	29.4 ± 0.9	28.8	

The assay demonstrated excellent correlation with results determined by LC-MS/MS and correlation coefficient (R^2) is 0.996.



ISO 9001:2008 &
ISO 13485:2012

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