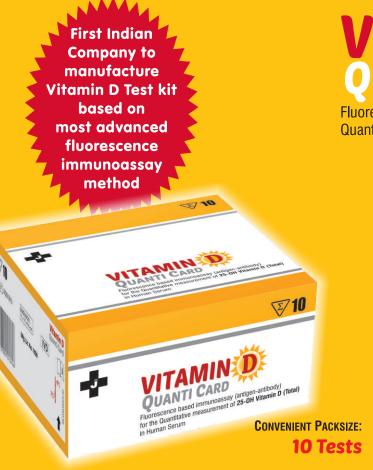


# 25-OH Vitamin D (Total) ...a Boon for Good Health!



# VITAMIN DE QUANTI CARD

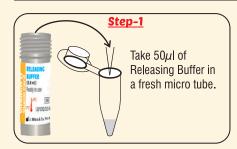
Fluorescence immunoassay (antigen-antibody) for the Quantitative measurement of **25-OH Vitamin D (Total)** in Human Serum

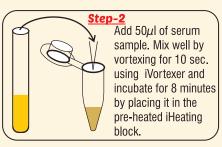
- Principle: Based on most advanced fluorescence immunoassay method
- > Quantitative detection of 25-OH Vitamin D2 & D3
- Individually pouched test cartridge, each cartridge is precision engineered with embeded lot data. No chip required
- Accurate Results traceable to international standard reference NIST-SRM 972a
- Excellent result corelation 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

# Significance of Vitamin D

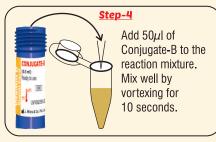
- Vitamin D is essential for strong bones, muscles and overall health.
- > It controls calcium level in body and helps in maintaining bone structure.
- Vitamin D has other roles in the body, including modulation of cell growth, neuromuscular and immune function, and reduction of inflammation.
- lt reduces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

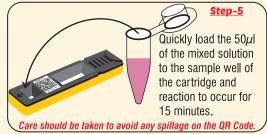
#### **Test Procedure**













<sup>\*</sup> 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<br>Quanti Card (ng/mL) | Co-relation               |
|---------|---|--|---------------------------|
| Level 1 | 28 <u>+</u> 1.1                           | 29.2   | Results with all 4 levels |
| Level 2 | 20.20 <u>+</u> 0.52                       | 19.93  | of standards are within   |
| Level 3 | 33.1 <u>+</u> 0.8                         | 32.7   | defined range and found   |
| Level 4 | 29.4 <u>+</u> 0.9                         | 28.8   | to be in co-relation.     |

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