

BOOST YOUR IMMUNE SYSTEM AGAINST CORONAVIRUS

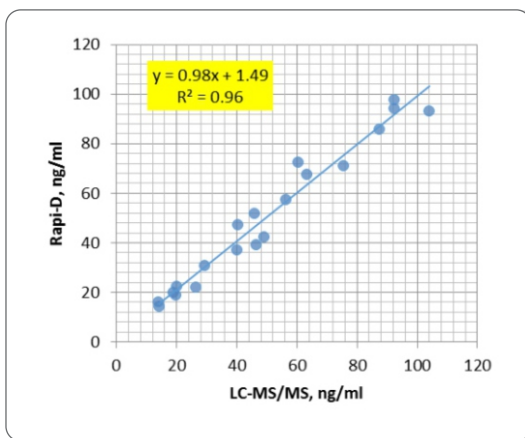
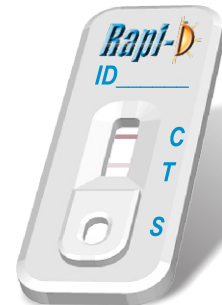
Vitamin D

DETECT AND TAKE VITAMIN D FOR COVID PREVENTION

Throughout the current global COVID-19 pandemic, Vitamin D has gained immense attention for its multiple roles in immune health, especially in response to COVID-19. Vitamin D has specific protective and regulatory effects on immune cells and inflammation. Thousands of publications and reviews have been published showing a strong connection between Vitamin D status and COVID-19 disease severity and death – justifying more reasons to take every step possible to avoid Vitamin D deficiency.

Are You Vitamin D Deficient? Don't Guess it...Test it!

**World's First Rapid Vitamin D "Sandwich"
Quantitative Whole Blood Test**



Benchmarked against Gold Standard

Quantify 25-OH Vitamin D with
World's Smallest Reader: **RapiRead™**



SUNSHINE VITAMIN - SURVIVAL SUPPLEMENT

Vitamin D – Important Nutrient to Improve Immune Health to fight Coronavirus

Do You Know Your Vitamin D Level?

A Vital Biomarker for General Health and Wellness

Taking Vitamin D Supplement isn't enough! Worldwide Top Vitamin D Researchers agree and recommend to maintain an Optimum Level of 40ng - 60ng/ml for Best Health Benefits and Disease Prevention, including COVID-19!

BECAUSE VITAMIN D SCREENING, SUPPLEMENTATION AND MONITORING MATTERS...

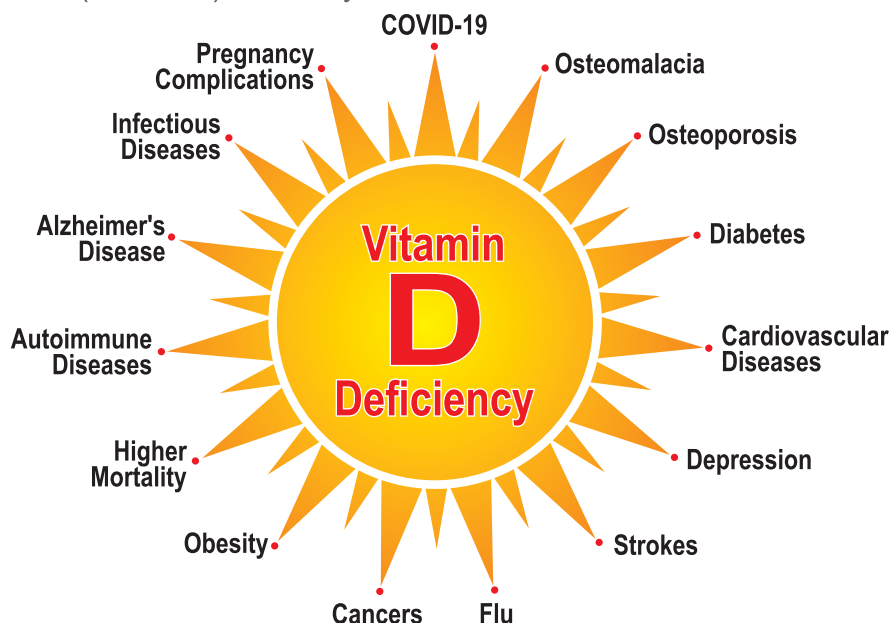
- ...to enhance the innate and adaptive immune responses.
- ...to prevent COVID-19 infection by building strong Immunity.
- ...to reduce transmission rates of the highly contagious Delta variant.
- ...to significantly reduce risk of COVID-19 infection, severity, and hospitalization.
- ...to increase SARS-CoV-2 Viral RNA Clearance and Negativity.
- ...to treat and reduce ICU admission for COVID-19 Patients.
- ...to improve COVID-19 clinical outcome and accelerate recovery.
- ...to control Cytokine storm and disease progression.
- ...to promote the expression of Cathelicidine – the Virus blocker.
- ...to lower Mortality Rate among COVID-19 ARDS Patients in ICU.
- ...to optimize COVID-19 vaccine efficacy by ensuring nutritional adequacy.

Excellent Source for COVID-19 and Vitamin D – Study Results:

https://www.grassrootshealth.net/blog/review-vitamin-d-immune-health/?utm_source=newsletter-main&utm_medium=email&utm_campaign=Newsletters

Why is Vitamin D so Vital for Your Health?

- ☀ Vitamin D is a Hormone rather than a Vitamin. Virtually every tissue and cell in our body has Vitamin D (Hormone D) Receptors (VDR), meaning that they all require “Sufficient” Level of Vitamin D for optimal functioning.
- ☀ The health risks associated with Vitamin D deficiency are far more severe than previously thought.
- ☀ Now Sunshine Vitamin (Vitamin D) deficiency has been linked to various serious diseases:



- ☀ An impressive body of new scientific research and clinical knowledge has accumulated over the past two decades providing important information about the role of Vitamin D (Hormone D) in overall health and prevention of a broad range of chronic diseases. Therefore, now detecting 25 (OH) Vitamin D level is considered as: “**Medically Necessary Screening Test**”



World's First Point-Of-Care Vitamin D Test is DEQAS Certified

DEQAS

(VitaminD External Quality Assessment Scheme, UK)



LAB Grade; But Outside LAB Test!

Vitamin D Control

Lyophilized LC-MS Confirmed Serum Controls for QC Testing

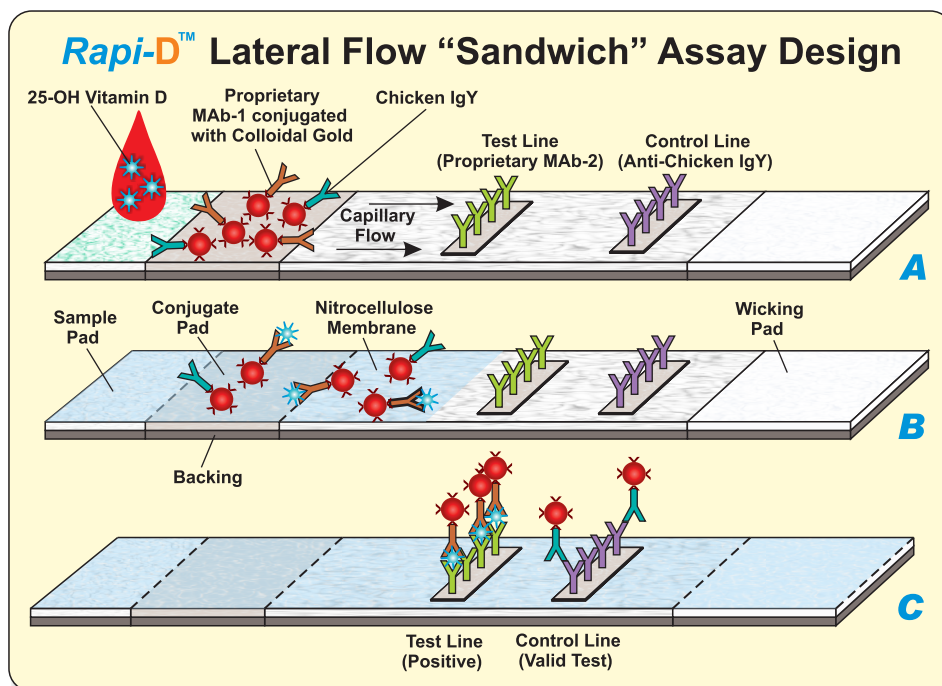
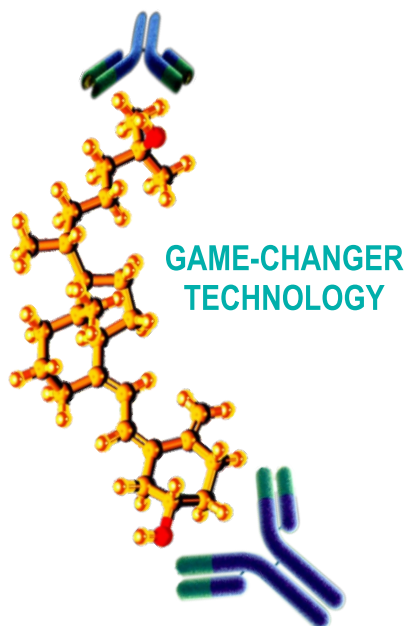


UniSampler
STAND
For simple Batch Testing





Patented[†] Rapid Vitamin D “Sandwich” Test Technology



Why is Rapi-D™ a Better Test?

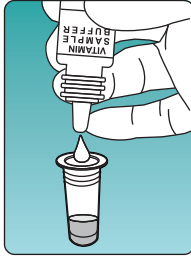
Comparison between Conventional Competitive and “Patented” “Sandwich” Immunochromatographic Vitamin D Tests

	Conventional Rapid Vitamin D Whole Blood Test	Rapid Vitamin D “Sandwich” Quantitative Whole Blood Test
Technology	Uses a single Monoclonal Antibody	Uses an “Exclusive” pair of “Proprietary” Monoclonal Antibodies
DEQAS Certified	Not Known	DEQAS Certified
Test Results	Indirect Results (No Test Line – Positive)	Direct Results (Test Line – Positive) Easy and Clear Result interpretation
Sample	Direct Whole Blood sample application on test device. (Higher changes of variation in test results)	10µl Finger-prick blood using UniSampler™ Device for accurate collection, dilution, and dispensing. Simple, Convenient and Less chances of errors
Traceability	Not Known	Traces to DEQAS, UK and NIST, USA
Sensitivity	4 ng/ml	3 ng/ml– Higher Sensitivity due to the use of two antibodies against the same antigen
Detection Range	4 ng/ml – 80 ng/ml	3 ng/ml – 100 ng/ml (Higher range)
Specificity	Lower Specificity due to one antibody for 25-OH Vitamin D competing non-specifically with structurally similar molecules.	Higher Specificity due to sandwich capture of 25-OH Vitamin D by two highly specific Monoclonal Antibodies
Biotin Interference	Not Known	NO Interference with high Biotin levels in patient samples
Shelf-life	12 Months	18 Months
Vitamin D Controls	Not available	Lyophilized LC - MS Confirmed Serum Controls available for Quality Control

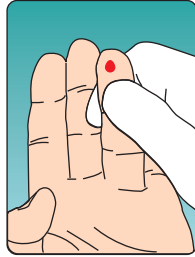
Rapi-D™ – Clearly the Clear Choice!

EASY TO USE TEST PROCEDURE WITH UniSampler™ DEVICE

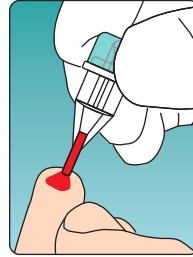
(Consult instructions for Use for complete procedure)



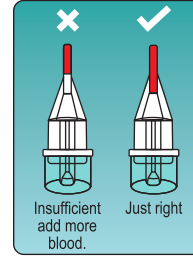
Add 5 Drops into the Tube.



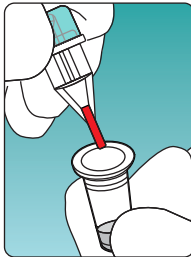
Use a Lancet to draw finger-prick Blood.



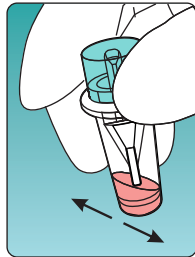
Gently touch the tip of Blood Collector to Blood droplet. Capillary action will fill 10µl blood and stop.



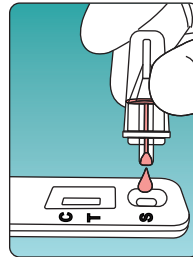
Insufficient add more blood. Just right



Insert Blood Collector into Tube and push firmly.



Shake vigorously and mix completely



Remove Cap and add 3 drops.



Read result at 15 minutes Using **RapiRead™** CUBE Reader.

CLEAR RESULT INTERPRETATION

(Consult Instructions for Use for Digital Result Interpretations using **RapiRead™** Cube Reader)

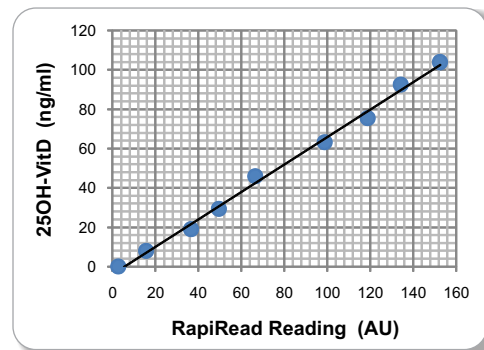


Based on 25-OH Vitamin D levels, the results are displayed in ng/ml or nmol/l followed by Result with an audible signal:

25-OH Vitamin D levels	Result
< 10.0 ng/ml	DEFICIENT
≥ 10.0 - < 30.0 ng/ml	INSUFFICIENT
≥ 30.0 - < 100.0 ng/ml	SUFFICIENT
≥ 100 ng/ml	

STANDARD CURVE

The AU reading is automatically converted into ng/ml or nmol/l in **RapiRead™** Reader.



VITAMIN D INSUFFICIENCY AFFECTS ABOUT 50% OF THE WORLD POPULATION*

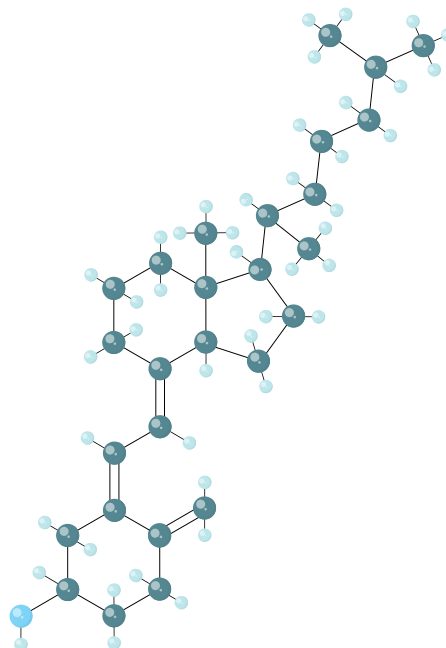
Over 1 Billion people worldwide have Vitamin D Deficiency (VDD)*

*Don't remain undiagnosed...
Detect your Vitamin D Level Today with **Rapi-D**
in just 15 Minutes with finger-prick blood*

Rapi-D

Ultimate Point-Of-Care Advantages:

- ☀ Lab Grade Quantitative Test Results in 15 Minutes
- ☀ Just 10µl Finger-prick blood sample
- ☀ Only 3 seconds measurement with Reader
- ☀ Detects both Vitamin D2 & D3
- ☀ Detection Range: 3ng/ml – 100ng/ml
- ☀ Calibrated against LC-MS/MS (Gold Standard)
- ☀ R² against LC-MS/MS: 0.96
- ☀ Accuracy: 98%
- ☀ Specificity: 100%
- ☀ NO Interference with high Biotin levels in patient samples
- ☀ Vitamin D Controls for QC testing
- ☀ Simple, Convenient and Easy to interpret
- ☀ Room temperature stable
- ☀ Novel Preventative Health Test for any POC setting
- ☀ Out-side Lab Test makes diagnosis & treatment easier
- ☀ Self-Testing Vitamin D and personal health monitoring made simple
- ☀ Ideal Screening Test for Physicians' Clinics, OB/GYN Centers, Orthopedic Doctors and Corporate/Government Wellness programs, etc.
- ☀ Perfect Companion Diagnostic (CDx) for Nutritional products companies
- ☀ Useful test for Dentists for dental health and faster healing post implant surgery.



Rapi-D

**The Ideal Companion Diagnostic (CDx)
for Vitamin D Supplement Pharma Companies**

**Test, Supplement, Monitor & Maintain
Vitamin D Level for
Better Health & Wellness!** ☀

Affimedix

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EC REP

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Marketed By:

Rapi-D Test... Anytime, Anywhere!
The Revolutionary Vitality Health Check Test

* Holick MF. Vitamin D deficiency. N Engl J Med., 357:266-81, 2007
† U.S. Patent No. 11,073,524; European (EP) Patent No: 3405198