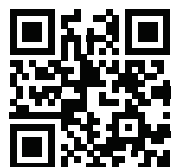


2024  
**HUMAN  
HEALTH**  
PRODUCT CATALOG

**VITROSENS**



**IN**  
**TEST**  
WE  
TRUST

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# Contents

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# ABOUT US

## | Our Story |

Vitrosens Biyoteknoloji A.S., founded in Türkiye, has brought together R&D, production, and sales, since our establishment, to provide and develop accurate, game-changing in vitro diagnostic solutions. The company is a leading diagnostics firm committed to advancing science and improving the world through innovative technologies and groundbreaking research.



Our company operates the largest rapid test kit facility in Türkiye, and our manufacturing processes are carried out under ISO 13485: 2016 compliant quality systems. Our quality management systems have a Medical Device Single Audit Program (MDSAP) standards. The company's success is founded on our expertise in molecular biology, genetics, in-vitro-diagnostic (IVD), and point-of-care testing (POCT).

## | Quality Standards |

The Medical Device Single Audit Program enables an Auditing Organization recognized by MDSAP to perform a sole regulatory audit for a medical device manufacturer, meeting the applicable requirements of the regulatory authorities involved in the program.

### Jurisdictions:

- Therapeutic Goods Administration of Australia
- Brazil's Agência Nacional de Vigilância Sanitária
- Health Canada
- U.S. Food and Drug Administration



## | Certificates |

- Republic of Türkiye Ministry of Health
- Free Sales Certificates – From Türkiye and the UK
- Republic of Türkiye Ministry of Agriculture and Forestry
- Food and Drug Administration (FDA)
- Therapeutic Goods Administration (TGA)
- Medicines and Healthcare products Regulatory Agency of UK (MHRA)
- ISO 13485:2016
- ISO 19001:2015
- ISO 14644-1 Cleanrooms and Associated Controlled Environments approved Class 7 and Class 8 Production Area

## | Our Solutions |

- Rapid Test Kits Development
- Molecular Products Development
- Diagnostic Device Development
- OEM (Original Equipment Manufacturer)
- ODM (Original Design Manufacturer)

## | Why Vitrosens? |

- Broad Test Spectrum
- Innovative IVD Products
- Experienced R&D and P&D Team
- Central Location- Fast Delivery to All The World
- Daily Production Capacity: 500.000 Tests
- 10.000 m<sup>2</sup> Facility Area
- Environmentally Friendly

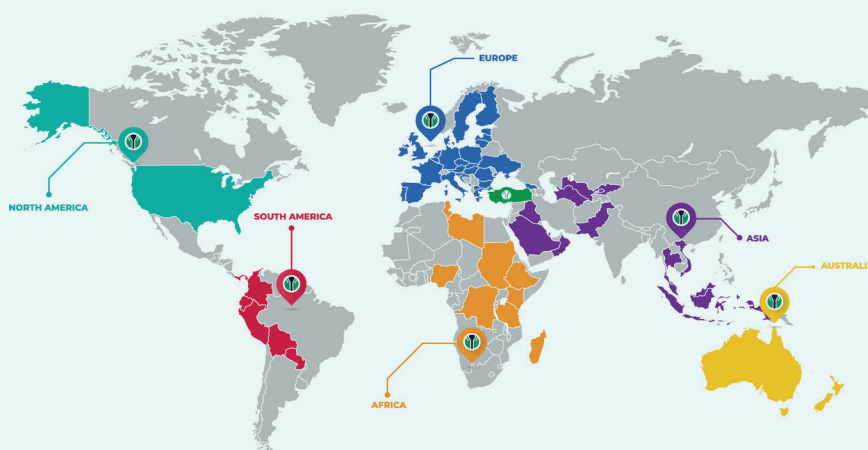
## | Global Presence |

**+50**  
Countries

**6**  
Continents

**+100**  
Partner Companies

**+100M**  
Production Capacity



## | Vitrosens Core Technology Platforms |

|                        |                               |                      |
|------------------------|-------------------------------|----------------------|
| Colloidal Gold - Latex | Immunofluorescence            | Molecular Diagnostic |
| Biomaterial            | Immunofluorescence Instrument | Molecular Instrument |

## | Our Brands |

|          |         |         |          |          |        |
|----------|---------|---------|----------|----------|--------|
| RapidFor | VetFor  | MagFast | ChainPro | ChainFor | MagPro |
| ViraSens | LyoSens | FIAPro  | DrugFor  | VNFOR    | VTFOR  |

# ABOUT US

## R&D CENTER

In 2016, our company took the establishment steps, it became a Research and Development (R&D) Centre by obtaining approval from the relevant ministry in Turkey. Our company, which has focused on the importance of research and development since its establishment, makes all its investments in this direction.



## Academic and Clinics Partnerships

Located in Türkiye and abroad,

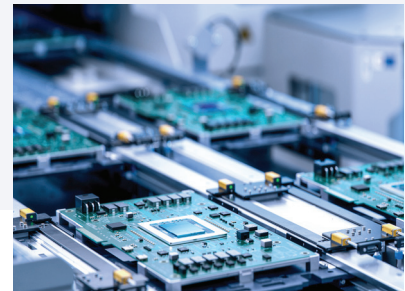
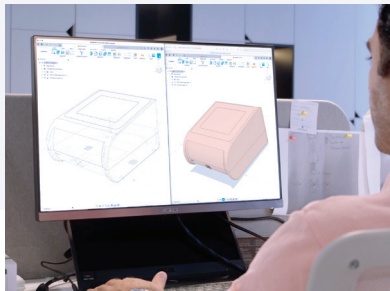
- Collaboration with recognized universities
- Product-performance evaluation cooperation with veterinary clinics for **Animal Health Division**
- Collaboration with specialized laboratories and hospitals in the field of **Human Health Division**



## PRODUCT & DEVICE DEVELOPMENT

Our product development department is constantly working on the development of rapid test cassettes and diagnostic devices using high-innovation technology.

- Test cassette design, molding and injection
- Molecular Diagnostic Instruments: Real-Time PCR and Nucleic Acid Extraction device
- Immunofluorescence Instruments: Europium Based System
- Software Development: In house software application for our devices
- Main-board and circuit design



**Special Device  
Design**



**Designed digital  
print on cassettes**



**Production of  
electronical main-board**

## PRODUCTION

In co-operation with our successful R&D department, we produce at high standards in our **6000 m<sup>2</sup> production area**. We take care to produce by keeping biosecurity at high levels with our **Clean Room** standard with ISO 14644 **Class 7** and **Class 8** certificates. Our factory has the opportunity to work **7/24** if necessary to provide the best service to our valued partners.



Clean Room  
Production



Automated solution  
filling systems



Automated  
packaging systems

## ENVIRONMENTAL SUSTAINABILITY

Vitrosens Biotechnology, we are dedicated to restricting our plastic usage to preserve environmental resources, promote **sustainable** development, and minimize the **ecological impact** of our products by safeguarding ecosystems. Our distinctive approach is evident in the production of our biobased cassettes. These **biobased cassettes** are designed to be sustainable and **biodegradable**. Serving as an environmentally friendly alternative to mass-produced plastic test cassettes, our commitment to **eco-friendly production** is strongly upheld under the **ISO 14001** standards we adhere to.



Biobase Cassette



Bio-degreable  
package



Paper Cassette

# IMMUNOCHROMATOGRAPHY TECHNOLOGY

## | Colloidal Gold Nanoparticles |

From the beginning, Vitrosens Biotechnology had the mission of developing diagnostic solutions and being developed as a part of these solutions. During our path to following this mission over the years, we developed our in-house colloidal gold nanoparticles, the core material for the developed technology, in the size of 40nm (Fig.1). We successfully integrated them into our rapid diagnostic solutions.

In-house produced Colloidal Gold Nanoparticles are characterized by using UV-Vis Spectrophotometry (Fig.2), Dynamic Light Scattering (DLS) (Fig.3), and Transmission Electron Microscope (TEM) imaging (Fig.4).

### In-house Colloidal Gold Nanoparticle Advantages:

1. **Custom-Engineering:** Ensuring the flexibility to manage quality and performance
2. **Enhanced Accuracy:** Higher sensitivity and specificity.
3. **Large-Scale Capacity:** Maximizing the production capacity and minimizing error rate.

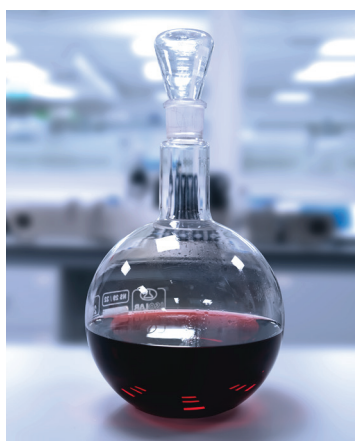


Fig.1

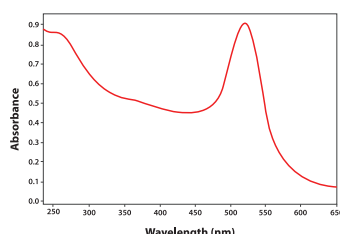


Fig.2

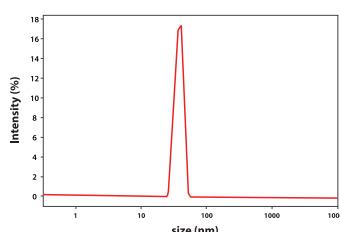


Fig.3

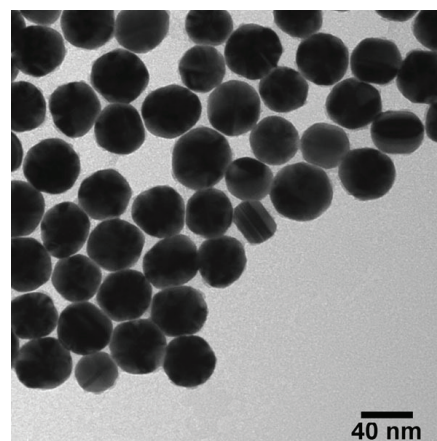


Fig.4

## | Latex Beads |

Our second most-used material in immunochromatography is the latex beads (200, 300 nm) (Fig.5), which give the advantages below:

1. **Enhanced Sensitivity:** The large surface area of latex beads increases the attachment area of target molecules.
2. **Flexible in Color:** Latex beads can be dyed in various colors, which ensures the Double-Colored LFA technology (Fig.6).



Fig.5



Fig.6

## | Rapid Diagnostic |

Our rapid kit are diagnostic devices designed to provide the best performance most simply. As Vitrosens Biotechnology, our rapid test portfolio mainly covers the diagnosis of gastrointestinal, and respiratory tract infections, tumor markers, and sexually transmitted diseases.



Easy-To-Use



Result In  
2-15 Minutes



Reliable



Easy To  
Interpret

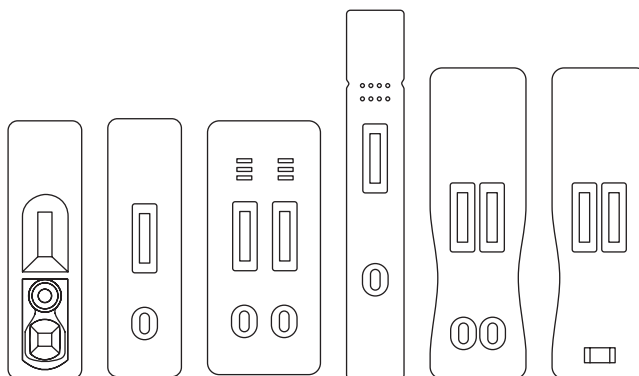


### Features

- Easy to use and interpret in several strip tests
- No need for special equipment
- Intended for one use
- Cost-effective
- Wide range of applications
- Regulatory compliance
- Minimize risk of error in result interpretation

## | Test Formats |

- Employ a singular device to conduct a variety of tests using a sole sample.
- Streamline the testing process with a single sample, minimal preparation, and the capability for panel testing.
- Diagnose multiple analytes swiftly, achieving results in just 10 minutes.
- Mitigate the risk of mishandling results through a design that reduces the likelihood of errors.
- Enhance operational efficiency with a testing system designed for seamless and rapid execution.



# SEXUALLY TRANSMITTED DISEASES

Sexually Transmitted Diseases (STDs) usually do not cause any symptoms, which makes them difficult to detect. The lack of symptoms, especially in the early stages of infection, causes detection difficulties and underlines the importance of regular screening and testing, especially for sexually active individuals. Our Sexually Transmitted Disease Solutions focus on the following pathogens:

## Viruses

- Human Papillomavirus (HPV)
- HIV/AIDS
- Hepatitis A
- Hepatitis B
- Hepatitis C
- Hepatitis E

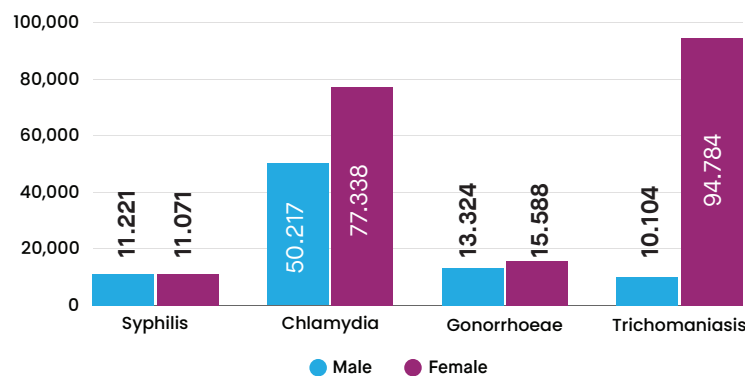
## Bacterias

- Chlamydia
- Gonorrhea
- Syphilis

## Protozoan parasite

- Trichomoniasis

Prevalent cases of STD (in thousands)



Source: World Health Organization, Last updated 2023-07-25

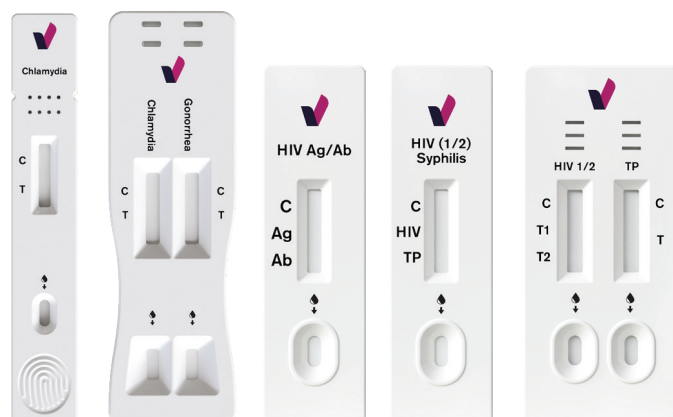
New infections of chlamydia, gonorrhoea, syphilis or trichomoniasis

**374 million**  
in adults 15 to 49 in 2020

New infections of chlamydia, gonorrhoea, syphilis or trichomoniasis

**over 1 million**  
new cases per day in adults 15 to 49 in 2020

Multiple results with a single sample.



# Chlamydia + Gonorrhea

The RapidFor Chlamydia + Gonorrhea Combo Test Kit is a diagnostic tool designed for the simultaneous detection of Chlamydia trachomatis and Neisseria gonorrhoeae, two common sexually transmitted infections (STIs). This combo test kit is intended to provide quick and convenient results, typically within a short period, allowing for timely diagnosis and treatment.



- Box Content**
- Test cassette
  - Buffer A
  - Buffer B
  - Swab
  - Empty Tube
  - Dropper
  - User manual

## Sexually Transmitted Diseases All Products

| Ref. No  | Name                                        | Kit Size | Certificates  |
|----------|---------------------------------------------|----------|---------------|
| VMD01    | HAV IgM Rapid Test Kit                      | 25 T     | CE            |
| VMD02    | HBsAb Rapid Test Kit                        | 25 T     | CE            |
| VMD03    | HCV Ab Rapid Test Kit                       | 25 T     | ISO           |
| VMD04    | Syphilis Ab Rapid Test Kit                  | 25 T     | CE            |
| VMD10    | HBsAg Rapid Test Kit                        | 25 T     | ISO           |
| VMD12    | HIV (1/2) Rapid Test Kit                    | 25 T     | ISO           |
| VMD13    | HIV (1/2) Rapid Test Kit (Oral Fluid)       | 25 T     | ISO           |
| VMD14 ★  | HIV Ag/Ab Rapid Test Kit                    | 25 T     | ISO           |
| VMD32 ★  | HIV / Syphilis Rapid Test Kit               | 25 T     | ISO           |
| VMD33    | HBsAg + HCV + HIV + TP Combo Rapid Test Kit | 25 T     | ISO           |
| VMD30    | Chlamydia Trachomatis Rapid Test Kit        | 25 T     | ISO           |
| VMD39    | Neisseria Gonorrhoeae Rapid Test Kit        | 25 T     | CE, FDA, MHRA |
| VMD109 ★ | Chlamydia + Gonorrhea Combo Rapid Test Kit  | 25 T     | ISO           |
| VMD105   | HEV IgM Rapid Test Kit                      | 25 T     | CE            |
| VMD114 ★ | Trichomonas Vaginalis Rapid Test Kit        | 25 T     | CE            |

★ Highlighted Product

# RESPIRATORY DISEASES

Respiratory diseases are caused by various microorganisms that infect the respiratory tract. These pathogens can infect various parts of the respiratory system, including the upper respiratory tract (nose, throat, and sinuses) and the lower respiratory tract (lungs and airways). Our Respiratory Tract Solutions focus on the following pathogens:

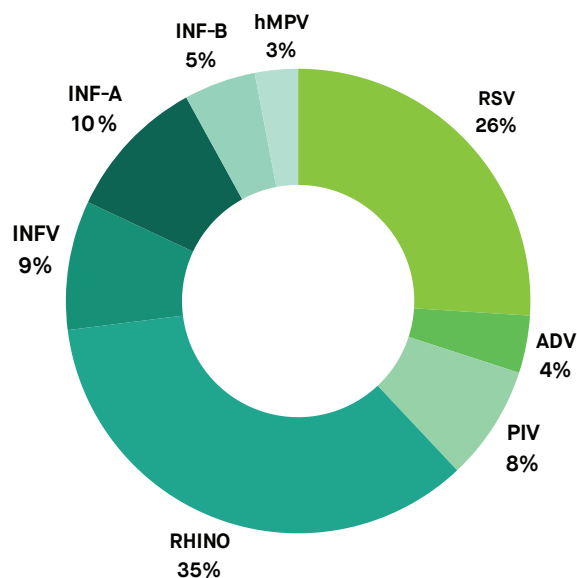
## Viruses

- Influenza Virus
- Respiratory Syncytial Virus (RSV)
- Coronaviruses
- Adenovirus (ADV)

## Bacteria

- Streptococcus pyogenes
- Mycoplasma pneumoniae
- Legionella pneumoniae
- Streptococcus pneumoniae

## World prevalence rates of respiratory viral infections

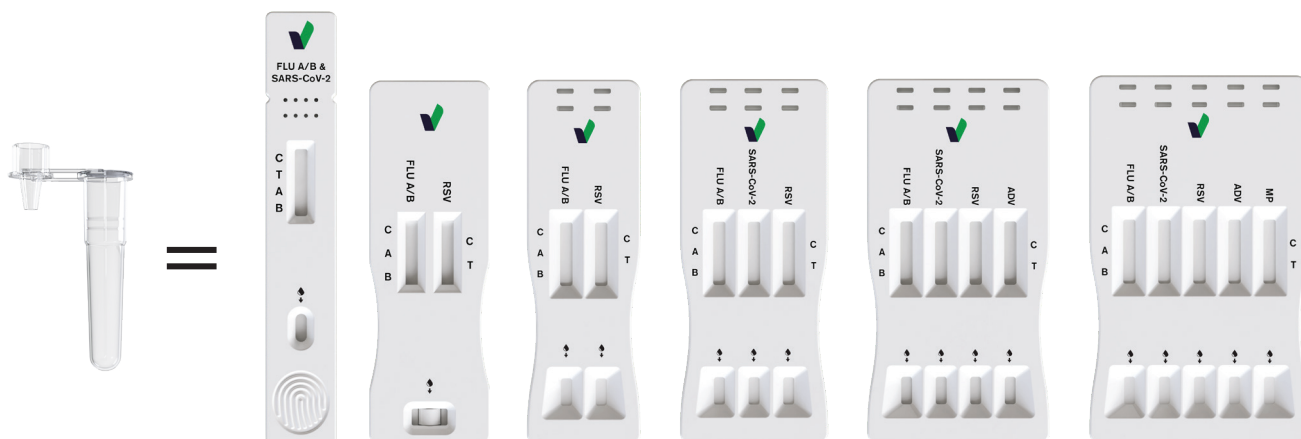


Source: ICMR-National AIDS Research Institute

## Sampling



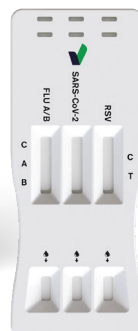
## Multiple results with a single sample.



# SARS-CoV-2 & FLU A/B & RSV



The SARS-CoV-2 + Flu A/B + RSV Combo Test refers to a combination test designed to simultaneously detect multiple respiratory viruses, including the SARS-CoV-2 virus responsible for COVID-19, influenza A and B viruses, and Respiratory Syncytial Virus (RSV). This type of combo test is commonly used to assess or diagnose respiratory infections, especially during seasons when these viruses are prevalent.



## Box Content

- Test Cassette
- Sample Collection Swab
- Extraction Buffer
- Dropper
- Instruction for use

## Respiratory Diseases All Products

| Ref. No  | Name                                                            | Kit Size | Certificates  |
|----------|-----------------------------------------------------------------|----------|---------------|
| VSCD01   | SARS-CoV-2 IgG/IgM Test Kit                                     | 25 T     | CE            |
| VSCD05   | SARS-CoV-2 Saliva Antigen Test Kit                              | 25 T     | CE            |
| VSCD08   | SARS-CoV-2 & FLU A/B Rapid Antigen Test Kit                     | 25 T     | CE            |
| VSCD02   | SARS-CoV-2 Rapid Antigen Test Kit                               | 25 T     | CE            |
| VSCD10   | SARS-CoV-2 & FLU A/B Antigen Combo Test Kit                     | 25 T     | CE, TGA       |
| VSCD10ST | SARS-CoV-2 & FLU A/B Antigen Combo Test Kit (Nasal)             | 1/2/5 T  | CE, TGA       |
| VMD80    | SARS-CoV-2 + RSV Combo Test Kit                                 | 25 T     | CE            |
| VMD71 ★  | SARS-CoV-2 + Flu A/B + RSV Combo Test Kit                       | 25 T     | CE            |
| VMD71ST  | SARS-CoV-2 + Flu A/B + RSV Combo Test Kit (Nasal)               | 1/2/5 T  | CE, TGA       |
| VMD79 ★  | SARS-CoV-2 + FLU A/B + RSV+ ADV Combo Test Kit                  | 20 T     | CE            |
| VMD81    | SARS-CoV-2 + FLU A/B + RSV + ADV + M. pneumoniae Combo Test Kit | 20 T     | CE            |
| VMD17    | Influenza A/B Rapid Test Kit                                    | 25 T     | CE, MHRA      |
| VMD77 ★  | FLU A/B + RSV Combo Test Kit                                    | 25 T     | CE, MHRA      |
| VMD78    | FLU A/B + RSV + ADV Combo Test Kit                              | 25 T     | CE            |
| VMD66    | RSV Rapid Test Kit                                              | 25 T     | CE, FDA, MHRA |
| VMD95    | RSV + ADV Resp. Combo Test Kit                                  | 25 T     | CE, FDA, MHRA |
| VMD112 ★ | RSV/Adeno Rapid Test Kit                                        | 25 T     | CE            |
| VMD83 ★  | ADV Resp. Rapid Test Kit                                        | 25 T     | CE            |
| VMD65    | Mycoplasma pneumoniae Ab Rapid Test Kit                         | 25 T     | CE            |
| VMD82    | Mycoplasma pneumoniae Ag Rapid Test Kit                         | 25 T     | CE            |
| VMD101   | ADV + M. pneumoniae Ag Combo Test Kit                           | 25 T     | CE            |
| VMD36 ★  | Strep A Rapid Test Kit                                          | 25 T     | CE, FDA, MHRA |
| VMD37    | Tuberculosis IgG/IgM Rapid Test Kit                             | 25 T     | CE, MHRA      |
| VMD92 ★  | Legionella pneumoniae Rapid Test Kit                            | 25 T     | CE            |
| VMD110   | Streptococcus pneumoniae Rapid Test Kit                         | 25 T     | CE            |

★ Highlighted Product

# GASTROINTESTINAL DISEASES

Gastrointestinal diseases refer to a group of disorders that affect the digestive system, which includes the stomach, intestines, liver, gallbladder, and other associated organs. These diseases can affect people of all ages and can range from mild to severe. Early detection and management can significantly improve outcomes for many gastrointestinal conditions. Our Gastrointestinal Disease Solutions focus on the following pathogens:

## Viruses

- Rotavirus
- Adenovirus
- Norovirus
- Astrovirus
- Enterovirus

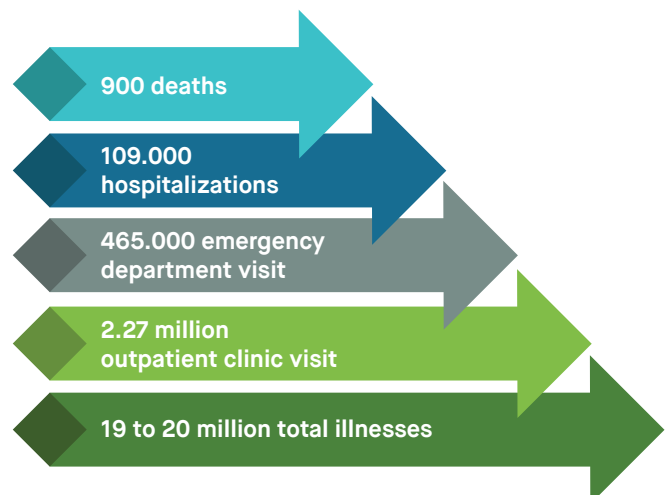
## Bacteria

- Helicobacter pylori (H. pylori)
- Salmonella Typhi
- Clostridioides difficile (C.difficile)
- Vibrio cholera

## Protozoans

- Giardia Lamblia
- Cryptosporidium
- Entamoeba

## Burden of Norovirus in the United States



Source: Centers for Disease Control and Prevention

## Multiple results with a single sample.



# Rota + Adeno + Noro + Astrovirus

The RapidFor Rota + Adeno + Noro + Astrovirus Combo Rapid Test Kit is a combination rapid antigen test designed to detect antigens associated with four different viruses: Rotavirus, Adenovirus, Norovirus, and Astrovirus.



## Box Content

- Test Cassette
- Extraction buffer
- Collection apparatus
- User manual

## Gastrointestinal All Products

| Ref. No | Name                                                                | Kit Size | Certificates  |
|---------|---------------------------------------------------------------------|----------|---------------|
| VMD16 ★ | H.Pylori Ag Rapid Test Kit                                          | 20 T     | CE, MHRA      |
| VMD35   | H.Pylori Ab Rapid Test Kit                                          | 25 T     | CE, FDA, MHRA |
| VMD27   | Salmonella Typhi Rapid Test Kit                                     | 20 T     | CE, FDA, MHRA |
| VMD24   | Rotavirus Rapid Test Kit                                            | 20 T     | CE, MHRA      |
| VMD40   | Adenovirus Rapid Test Kit                                           | 20 T     | CE, FDA, MHRA |
| VMD41   | Norovirus Rapid Test Kit                                            | 20 T     | CE, FDA, MHRA |
| VMD42   | Astrovirus Rapid Test Kit                                           | 20 T     | CE            |
| VMD25   | Rota + Adeno Virus Combo Test Kit                                   | 20 T     | CE            |
| VMD75 ★ | Rota/Adeno Rapid Test Kit                                           | 20 T     | CE            |
| VMD84 ★ | Rota/Adeno + Norovirus Combo Rapid Test Kit                         | 20 T     | CE            |
| VMD93   | Rota + Adeno + Norovirus Combo Rapid Test Kit                       | 20 T     | CE            |
| VMD91 ★ | Rota + Adeno + Noro + Astrovirus Combo Rapid Test Kit               | 20 T     | CE            |
| VMD88   | C.difficile GDH Rapid Test Kit                                      | 20 T     | CE, FDA       |
| VMD89   | C.difficile Toxin A + B Combo Rapid Test Kit                        | 20 T     | CE, FDA       |
| VMD67   | Giardia Lamblia Rapid Test Kit                                      | 20 T     | CE, FDA, MHRA |
| VMD68   | Cryptosporidium Rapid Test Kit                                      | 20 T     | CE, FDA, MHRA |
| VMD69   | Entamoeba Rapid Test Kit                                            | 20 T     | CE, FDA       |
| VMD94 ★ | Crypto + Giardia + Entamoeba Combo Rapid Test Kit                   | 20 T     | CE            |
| VMD96   | C.difficile GDH + Toxin A + Toxin B Combo Rapid Test Kit            | 20 T     | CE, FDA       |
| VMD107  | Crypto + Giardia Combo Test Kit                                     | 20 T     | CE            |
| VMD87   | Cholera O1/O139 Rapid Test Kit                                      | 20 T     | CE            |
| VMD108  | Enterovirus 71 IgM Rapid Test Kit                                   | 20 T     | CE            |
| VMD122  | Enterovirus Ag Rapid Test Kit                                       | 20 T     | CE            |
| VMD115  | Calprotectin Rapid Test Kit                                         | 20 T     | CE            |
| VMD116  | Lactoferrin Rapid Test Kit                                          | 20 T     | CE            |
| VMD117  | Transferrin Rapid Test Kit                                          | 20 T     | CE            |
| VMD70   | FOB + Transferrin Combo Test Kit                                    | 20 T     | CE, MHRA      |
| VMD118  | FOB + Transferrin + Calprotectin + Lactoferrin Combo Rapid Test Kit | 20 T     | CE            |

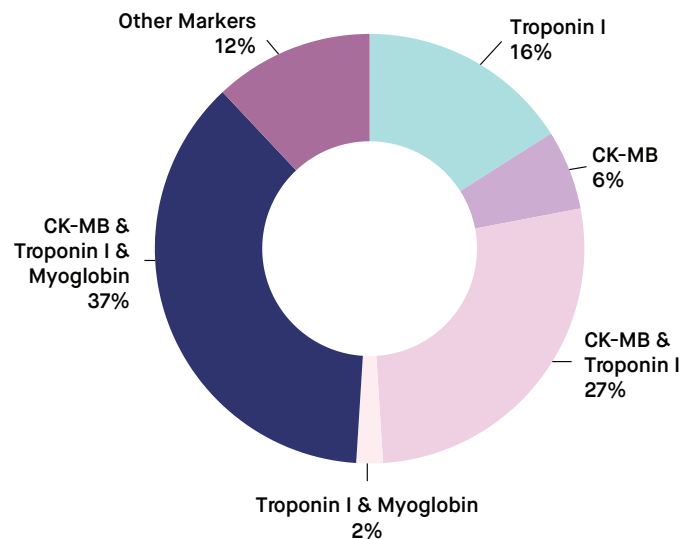
★ Highlighted Product

# CARDIAC MARKERS

Cardiac markers are substances released into the blood when the heart is damaged or stressed. These markers are commonly used in medical diagnostics, particularly in the context of cardiac conditions and events such as heart attacks. Cardiac marker testing is often performed in emergency rooms, hospitals, and clinical settings to help diagnose and assess heart-related conditions. At Vitrosens Biotechnology, we particularly focus on the following markers.

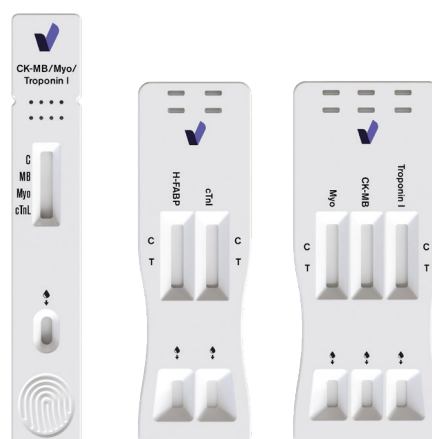
- Troponins
- Creatine Kinase-MB (CK-MB)
- Myoglobin
- Heart-Type Fatty Acid Binding Protein (H-FABP)
- N-Terminal pro-Brain Natriuretic Peptide (NT-proBNP)
- D-Dimer

## The Most Commonly Used Cardiac Markers



Source: American Association for Clinical Chemistry

Multiple results with a single sample.



# Troponin I

The RapidFor Troponin I Rapid Test Kit is a diagnostic tool designed to detect the presence of troponin I in a patient's blood sample. Troponin I is a cardiac muscle protein released into the bloodstream when there is damage to the heart muscle, particularly during events such as myocardial infarction (heart attack).



## Box Content

- Test Cassette
- Sample diluent
- Dropper
- User manual

Cut off  
0,5 ng/mL

# CK-MB/Myo/Troponin I

The test is a rapid chromatographic immunoassay for the qualitative detection of human Myoglobin, CK MB, and cardiac Troponin I in whole blood, serum, or plasma as an aid in the diagnosis of myocardial infarction (MI).



## Box Content

- Test Cassette
- Sample diluent
- Dropper
- User manual

## Cardiac Markers All Products

| Ref. No | Name                                | Cut-off   | Kit Size | Certificates |
|---------|-------------------------------------|-----------|----------|--------------|
| VMD49   | Troponin I Rapid Test Kit           | 0.5 ng/mL | 25 T     | CE           |
| VMD50   | Myoglobin Rapid Test Kit            | 50 ng/mL  | 25 T     | CE           |
| VMD51   | CK-MB Rapid Test Kit                | 5 ng/mL   | 25 T     | CE           |
| VMD56   | D-Dimer Rapid Test Kit              | 500 ng/mL | 25 T     | CE           |
| VMD55 ★ | CK-MB/Myo/Troponin I Rapid Test Kit | -         | 25 T     | CE           |

★ Highlighted Product

# TROPICAL DISEASES

Tropical diseases encompass a diverse group of infectious diseases that prevail in tropical and subtropical regions of the world. These diseases are often associated with poverty, poor sanitation, and limited access to healthcare. Our Tropical Disease Solutions focus on the following pathogens:

## Viruses

- Dengue
- Chikungunya
- Zika Virus

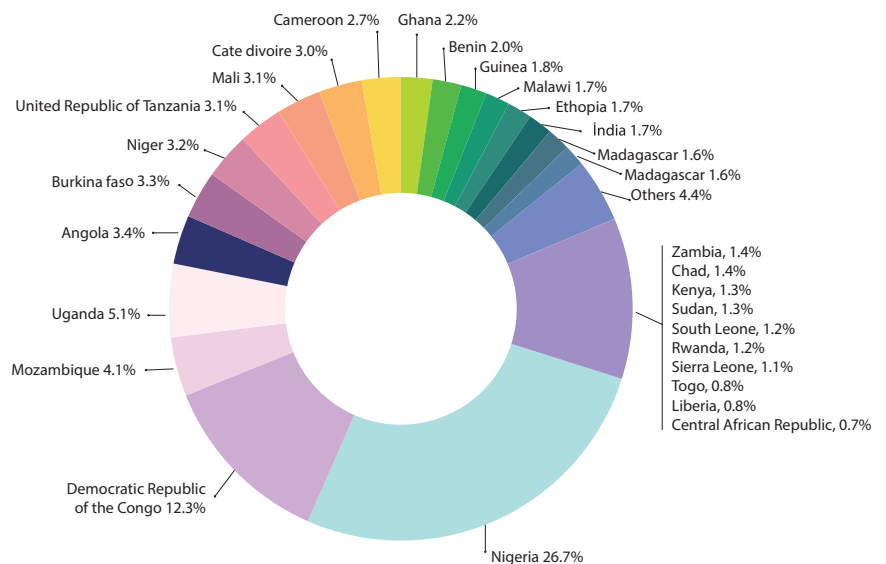
## Bacteria

- Salmonella Typhi

## Protozoan parasite

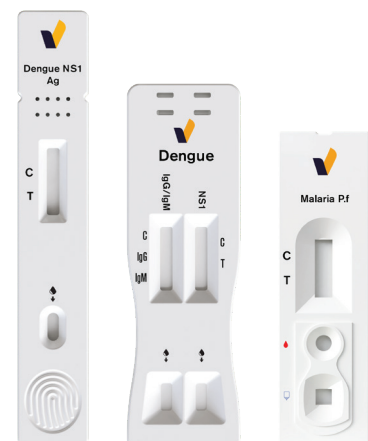
- Leishmania
- Plasmodium

Distribution of Malaria cases by Africa countries



Source: World Health Organization, World Health Statistics 2023

Our innovative approach ensures **quick** and **accurate results**, facilitating timely diagnosis and **intervention** in the fight against these challenging health conditions.



# Dengue NS1 Ag

The RapidFor Dengue NS1 Ag Rapid Test Kit is an in vitro diagnostic test designed to quickly diagnose infections caused by the dengue virus. Dengue fever is an infection caused by the dengue virus, which is transmitted through the bite of Aedes mosquitoes.



## Tropical All Products

| Ref. No  | Name                                    | Kit Size | Certificates |
|----------|-----------------------------------------|----------|--------------|
| VMD08 ★  | Dengue NS1 Ag Rapid Test Kit            | 25 T     | CE, MHRA     |
| VMD38    | Dengue IgG/IgM Rapid Test Kit           | 25 T     | CE, MHRA     |
| VMD06 ★  | Dengue IgG/IgM + NS1 Combo Test Kit     | 25 T     | CE, MHRA     |
| VMD21 ★  | Malaria P.f. / Pan Rapid Test Kit       | 25 T     | CE, MHRA     |
| VMD22 ★  | Malaria P.f. / P.v. Rapid Test Kit      | 25 T     | CE           |
| VMD123 ★ | Malaria P.f. (pLDH/HRP2) Rapid Test Kit | 25 T     | CE           |
| VMD52    | Chikungunya IgG/IgM Rapid Test Kit      | 25 T     | CE           |
| VMD29    | Typhoid IgG/IgM Rapid Test Kit          | 25 T     | CE, MHRA     |
| VMD43    | Zika IgM Rapid Test Kit                 | 25 T     | CE           |
| VMD113   | Leishmania Ab Rapid Test Kit            | 25 T     | CE           |

★ Highlighted Product

# TUMOR MARKERS

Tumor markers are substances that can be detected in the blood, urine, or tissues and may indicate the presence of cancer. These markers are often produced by cancer cells or by other cells in the body in response to the presence of cancer. It's important to note that the presence of a tumor marker doesn't necessarily confirm the presence of cancer. At Vitrosens Biotechnology, we particularly focus on the following markers.

## Prostate-Specific Antigen (PSA):

Associated with prostate cancer. Elevated PSA levels may indicate the presence of prostate cancer, but other conditions can also cause PSA levels to rise.

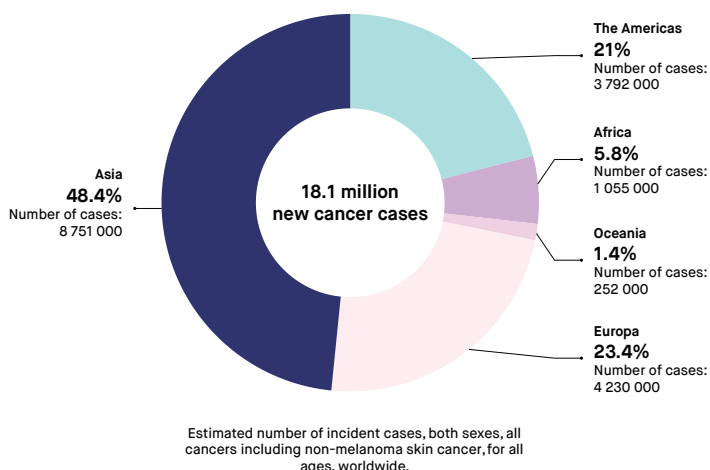
## Carcinoembryonic Antigen (CEA):

Associated with colorectal cancer. Elevated CEA levels may also be found in other cancers and non-cancerous conditions.

## Alpha-Fetoprotein (AFP):

Associated with liver cancer (hepatocellular carcinoma) and certain types of testicular cancer.

## Global Cancer Incidence



Source: Washington DC-based American Institute of Cancer Research (AICR) and the World Health Organization.

Ensures an **effective** and promising solution for reliable detection of various **cancer indicators**, contributing to early diagnosis.



Cut off  
10 ng/mL

# PSA

The RapidFor PSA Rapid Test Kit is an in vitro diagnostic tool designed to detect the presence of prostate-specific antigen (PSA) in whole blood, serum, or plasma samples. PSA is a protein produced by the prostate gland, and elevated levels of PSA in the blood may indicate conditions such as prostate cancer or other prostate-related issues. The test is often used as a screening tool to assess prostate health.



- Box Content**
- Test cassette
  - Sample Diluent
  - Dropper
  - User Manual

## Tumor Markers All Products

| Ref. No | Name                     | Cut-off  | Kit Size | Certificates |
|---------|--------------------------|----------|----------|--------------|
| VMD09   | FOB Rapid Test Kit       | 50 ng/mL | 20 T     | CE           |
| VMD76   | Ultra FOB Rapid Test Kit | 10 ng/mL | 20 T     | CE           |
| VMD44   | AFP Rapid Test Kit       | 10 ng/mL | 25 T     | CE           |
| VMD45   | CEA Rapid Test Kit       | 5 ng/mL  | 25 T     | CE           |
| VMD46 ★ | PSA Rapid Test Kit       | 4 ng/mL  | 25 T     | ISO          |

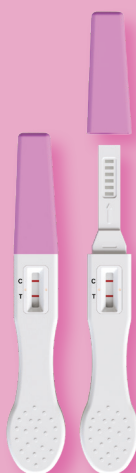
★ Highlighted Product

# FERTILITY

Strip Test



Midstream Test



Cassette Test



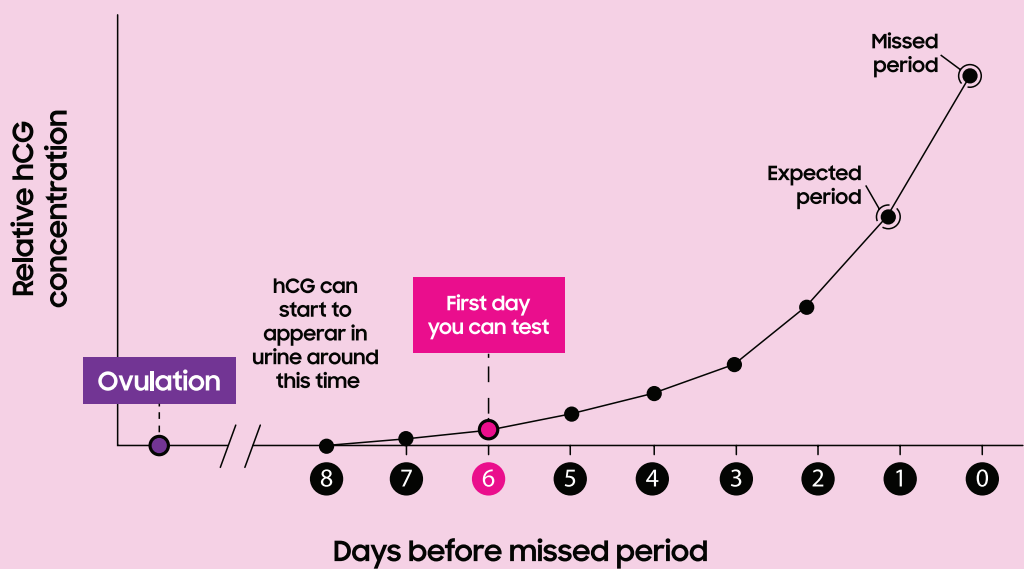
Test Portfolio with **Three Diverse Formats** Provide Early Detection of the **Pregnancy Hormone (hCG)**.

# Early Pregnancy

The RapidFor Early Pregnancy Test is a type of home pregnancy test designed to detect the presence of human chorionic gonadotropin (hCG) in a woman’s urine. HCG is a hormone produced during pregnancy, and its levels increase as the pregnancy progresses. Early pregnancy tests are specifically formulated to be more sensitive and may claim to detect pregnancy even before a missed period.



Rise of pregnancy hormone (hCG) in **early pregnancy**



## Fertility All Products

| Ref. No   | Name                         | Kit Size | Certificates |
|-----------|------------------------------|----------|--------------|
| VMD59-E ★ | Early Pregnancy Test Kit     | 1/2/5    | CE, MHRA     |
| VMD59 ★   | Pregnancy Test Kit           | 1/2/5    | CE           |
| VMD61     | Ovulation LH Rapid Test Kit  | 1/2/5    | CE, FDA      |
| VMD60 ★   | Midstream Pregnancy Test Kit | 1/2/5    | CE           |
| VMD86     | FSH Rapid Test Kit           | 25 T     | CE, FDA      |

★ Highlighted Product

# TORCH

"TORCH" is an acronym that represents a group of infectious agents that can cause congenital (present at birth) infections. Each letter in TORCH refers to a specific infectious agent:

**T - Toxoplasmosis:** Caused by the parasite *Toxoplasma gondii*. Infections during pregnancy can potentially lead to birth defects.

**O - Other (Varicella-Zoster, Parvovirus B19):**

- Varicella-Zoster (Chickenpox): Infection during pregnancy can harm the fetus.
- Parvovirus B19: This virus can cause a fifth disease in children and can have complications during pregnancy.

**R - Rubella:** Also known as German measles, it is caused by the rubella virus. Infection during early pregnancy can lead to congenital rubella syndrome.

**C - Cytomegalovirus (CMV):** Caused by the cytomegalovirus, a type of herpesvirus. CMV infections can occur during pregnancy and may pose risks to the developing fetus.

**H - Herpes Simplex Virus (HSV):** Infection with herpes simplex virus, which can cause genital herpes. Neonatal herpes can occur if a mother has a primary HSV infection during late pregnancy.

## Toxo IgG/IgM

The RapidFor™ *Toxoplasma* IgG/IgM Rapid Test Kit is a diagnostic tool used for the detection of antibodies against the *Toxoplasma gondii* parasite. *Toxoplasma gondii* is a microscopic parasite that can infect humans and animals, causing a condition known as toxoplasmosis.



### Box Content

- Test Cassette
- Sample diluent
- User manual

## Torch All Product

| Ref. No | Name                             | Kit Size | Certificates |
|---------|----------------------------------|----------|--------------|
| VMD26   | Rubella IgG/IgM Rapid Test Kit   | 25 T     | ISO          |
| VMD28 ★ | Toxo IgG/IgM Rapid Test Kit      | 25 T     | ISO          |
| VMD125  | HSV (1/2) IgG/IgM Rapid Test Kit | 25 T     | ISO          |

★ Highlighted Product

# DRUG OF ABUSE

Drug of abuse tests, commonly known as drug tests or screenings, are diagnostic tests used to detect the presence of specific substances or their metabolites in a person's body. These tests are often employed for various purposes, including workplace testing, athletic competitions, legal matters, and healthcare assessments. The most common types of drug of abuse tests include urine tests and saliva tests.

## Single Cassette Test



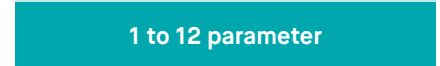
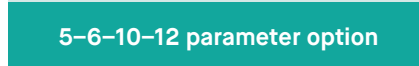
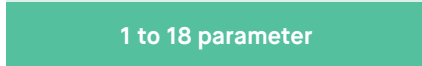
## Strip Version of Test



## Single Dip-stick Test

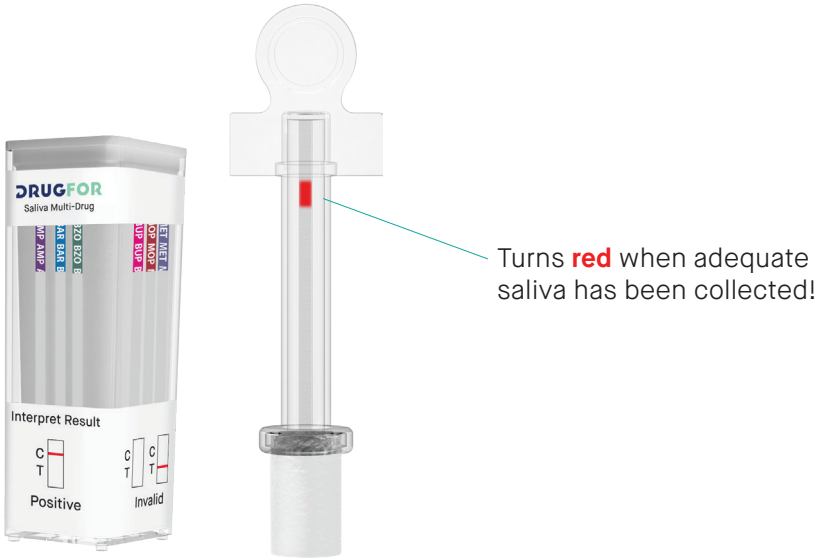


**DrugFor™** can be utilized to investigate suspected drug addiction with **three different test versions**.

[illegible]

# Saliva Multi-Drug Test Cup

The DrugFor Saliva Multi-Drug Test Cup is a diagnostic tool designed to simultaneously detect the presence of multiple drugs or their metabolites in a saliva (oral fluid) sample. The multi-drug test cups provide a convenient and non-invasive way to collect and test saliva for the presence of drugs.



| Drugs and drug metabolites we can screen                                                 |                    |                                       |
|------------------------------------------------------------------------------------------|--------------------|---------------------------------------|
| Drug                                                                                     | Description        | Cut-off (ng/mL) for Oral Fluid Sample |
|  AMP  | Amphetamine        | 50                                    |
|  BAR  | Barbiturates       | 50                                    |
|  BUP  | Buprenorphine      | 10                                    |
|  BZO  | Benzodiazepines    | 50                                    |
|  COC  | Cocaine            | 20                                    |
|  MOR  | Morphine           | 40                                    |
|  MET  | Methamphetamine    | 50                                    |
|  MTD  | Methadone          | 50                                    |
|  OXY  | Oxycodone          | 20                                    |
|  PCP  | Phencyclidine      | 20                                    |
|  THC  | Marijuana          | 20                                    |
|  OPI  | Opiate             | 10                                    |
|  MAMP | Methamphetamine    | 50                                    |
|  K2   | Synthetic Cannabis | 5                                     |
|  COT  | Cotinine           | 20                                    |

| Ref. No   | Name                       | Kit Size | Certificates |
|-----------|----------------------------|----------|--------------|
| VDDOA04 ★ | Saliva Multi-Drug Test Cup | 25/50T   | CE, FDA      |

★ Highlighted Product

# SELF-TEST OPTIONS

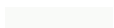
## Vitamin D

The Vitamin D Rapid Test Kit is a quick and easy way to screen for a potential vitamin D deficiency using a blood sample. Low levels of vitamin D can cause a variety of symptoms, and in severe cases may lead to a loss in bone strength.

### Vitamin D Color Card

1. Conduct testing to obtain one control line (C) and one test line (T).
2. Compare the intensity of the test line (T) with the colored lines shown below.

10ng/mL



30ng/mL



60ng/mL



100ng/mL

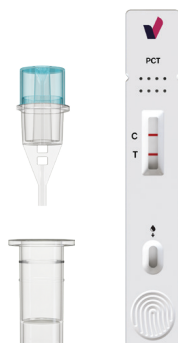


### Box Content

- Test cassette
- Sample diluent
- Capillary dropper
- Auto-lancet
- Alcohol swab
- Band aid
- User manual

## PCT

The PCT Rapid Test Kit is used to detect the concentration of procalcitonin in human whole blood for clinical diagnosis of bacterial-infected diseases, via immunochromatographic technology. PCT is used as a biomarker in clinical settings to help differentiate between bacterial and non-bacterial infections and to assess the severity of bacterial infections.



### Box Content

- Test cassette
- Sample diluent
- Capillary dropper
- Auto-lancet
- Alcohol swab
- Band aid
- User manual

# Ferritin

The Ferritin Rapid Test Kit is a diagnostic tool designed for the quick and convenient measurement of ferritin levels in the blood. Ferritin is a protein that stores iron in the body, and measuring its concentration is crucial for assessing iron status. Abnormal ferritin levels can indicate conditions such as iron deficiency or iron overload.



- Box Content**
- Test cassette
  - Sample diluent
  - Capillary dropper
  - Auto-lancet
  - Alcohol swab
  - Band aid
  - User manual

# TSH

The TSH (Thyroid Stimulating Hormone) Rapid Test Kit is a diagnostic tool designed to quickly and conveniently measure the level of TSH in the blood. TSH is a hormone produced by the pituitary gland that stimulates the thyroid gland to produce and release thyroid hormones (T3 and T4). Abnormal TSH levels can be indicative of thyroid dysfunction, including hypothyroidism or hyperthyroidism.



- Box Content**
- Test cassette
  - Sample diluent
  - Capillary dropper
  - Auto-lancet
  - Alcohol swab
  - Band aid
  - User manual

## Self-Test All Product

| Ref. No   | Name                     | Cut-off        | Kit Size   | Certificates |
|-----------|--------------------------|----------------|------------|--------------|
| VMD64ST ★ | Vitamin-D Rapid Test Kit | 10-30 ng/mL    | 1/2/5/25 T | CE           |
| VMD97ST ★ | Ferritin Rapid Test Kit  | 30 ng/mL       | 1/2/5/25 T | CE           |
| VMD98ST ★ | TSH Rapid Test Kit       | 5 µIU/mL       | 1/2/5/25 T | CE           |
| VMD47ST ★ | PCT Rapid Test Kit       | 0.5 ng/mL      | 1/2/5/25 T | CE           |
| VMD48ST ★ | CRP Rapid Test Kit       | 10-40-80 ng/mL | 1/2/5/25 T | CE           |

★ Highlighted Product

Notes:.....

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