

## COVID-19 ON BOARD TESTING SOLUTIONS

Onboard testing comes with complex challenges and deciding which option will work for you requires consideration of a number of factors, along with a presence and understanding of suitable procedures and best practices.

We understand captains and crewmembers have to mitigate risks to those on their vessel, monitor ever-changing guest profiles, crew health needs, excursion requests and yachting itineraries. MedAire built our yacht solutions to solve this challenge. Our goal is to ensure captains and crew are prepared, capable and confident during medical and safety incidents.

### BOSCH VIVALYTIC PCR

As a multiplex test, it simultaneously checks patient samples for the SARS-CoV-2 virus and nine other respiratory diseases in under two and a half hours, currently the fastest polymerase chain reaction (PCR) test worldwide. The test has a sensitivity of 98 percent and a specificity of 100 percent.

The Bosch Vivalytic PCR Test is recommended for vessels in the higher risk category after consulting with MedAire experts or when high sensitivity and high specificity results are required. The vessel should have a medical room with medical professionals or crew member with virtual MedAire training.



## SD BIOSENSOR F200



The Biosensor F200 Antigen Assay Nasal Swab Sample employs immunofluorescence technology to detect specific proteins from SARS-CoV-2 virus. This provides a high degree of sensitivity and specificity compared with other testing methods.

Biosensor F200 provides results in 15 minutes and tests for antigens with higher accuracy than a colour changing cassette version. The antigen shows that the virus has been present but may indicate current infection. Testing onboard must be administered by trained crew after MedAire virtual training. For vessels requiring a high number of tests for contractors, day-workers and crew on a regular basis, the Biosensor F2400 is capable of handling up to 24 tests at a time, using the same test cartridges.

## SURESCREEN'S ANTIGEN TEST CASSETTE

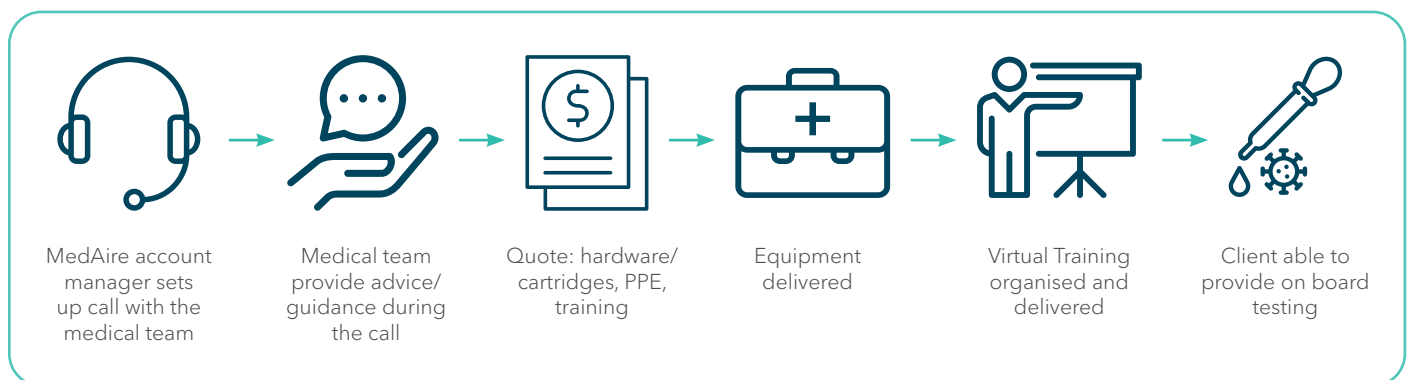
Indicated for vessels requiring adhoc testing where laboratory or shoreside testing is limited or non-existent, for example, when remote cruising.

SureScreen's COVID-19 rapid test identifies the body's response to coronavirus after the onset of infection, and gives the result within 10 to 15 minutes. Antigen shows that the virus has been present but may not indicate active infection.

A swab is used to sample from either the nose or throat (nasopharyngeal or oropharyngeal sample) and introduced into the test cassette by suspension in a buffer solution.



## HOW TO GET COVID-19 TESTING ON BOARD YOUR VESSEL



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## SD BIOSENSOR F200 - MULTIPLE ADDITIONAL TEST CAPABILITIES

- HIV Ag/Ab FIA
- CK-MB FIA
- Tnl FIA
- D-dimer FIA
- C. difficile Toxin A/B FIA
- HCV Ab FIA
- COVID-19 Ag FIA
- COVID-19
- Influenza A/B FIA
- RSV Ag FIA
- Strep A Ag FIA
- Legionella Ag FIA
- S.pneumoniae Ag FIA
- Syphilis Ab FIA
- TB-Feron FIA (IFN-gamma)
- TB-Feron FIA (IFN-gamma)
- Zika Ag FIA
- Dengue NS1 Ag FIA
- Chikungunya IgM/IgG FIA
- Lyme IgM/IgG FIA
- Lyme IgM/IgG FIA
- Tsutsugamushi IgM/IgG FIA

## BOSCH VIVALYTIC PCR - MULTIPLE ADDITIONAL TEST CAPABILITIES

### Viral Respiratory Tract Infections (VRI)

- SARS-CoV-2 (COVID-19)
- Adenovirus A/B/C/D/E
- Sarbecovirus (SARS, SARS like, SARS-CoV-2)
- Enterovirus A/B/C
- Coronavirus 229E/NL63
- Influenza A
- Coronavirus OC43/HKU1
- Influenza B
- Middle East Respiratory Syndrome Coronavirus (MERS-CoV)
- Rhinovirus A/B

### Sexually Transmitted Infections (STI)

- Chlamydia trachomatis (CT)
- Herpes simplex virus 1 (HSV-1)
- Neisseria gonorrhoeae (NG)
- Herpes simplex virus 2 (HSV-2)
- Trichomonas vaginalis (TV)
- Haemophilus ducreyi (HD)
- Mycoplasma genitalium (MG)
- Mycoplasma hominis (MH)
- Treponema pallidum (Syphilis) (TP)
- Ureaplasma urealyticum (UU)

### SARS-CoV-2 (COVID-19)

- SARS-CoV-2 (COVID-19)

### SARS-CoV-2 (COVID-19 Pooling Test)

- SARS-CoV-2 (COVID-19)

### Chronic Lung Disease (CLD) \*In Development

#### VIRUSES

- Adenovirus
- Respiratory syncytial virus A
- Influenza virus A
- Respiratory syncytial virus B
- Influenza virus B
- Rhinovirus A/B/C

#### BACTERIA

- Achromobacter xylosoxidans
- Moraxella catarrhalis
- pseudomonas aeruginosa
- Ordetella pertussis
- Mycoplasma pneumoniae
- Staphylococcus aureus
- Burkholderia cepacia complex (21 spp)
- Non-tuberculous
- Mycobacterium (17 spp)
- Stenotrophomonas maltophilia Burkholderia cenocepacia
- Mycobacterium abscessus subgroup (4 spp)
- Streptococcus pneumoniae (21 spp)
- Burkholderia multivorans
- Mycobacterium avium complex (4 spp)
- Streptococcus species (19 spp)
- Chlamydophila pneumoniae
- Pandoraea species (5 spp)
- Veillonella species (3 spp)
- Haemophilus influenzae Prevotella species (16 spp)

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## **FUNGI**

- Aspergillus fumigatus
- Candida albicans
- Exophiala dermatitidis
- Scedosporium species (7 spp)

## **ANTIBIOTIC RESISTANCE MARKERS**

- mecA (incl MRSA)

## **Urinary Tract Infections (UTI)**

### **\*In Development**

#### **BACTERIA**

- Acinetobacter baumannii
- Escherichia coli
- Providencia stuartii
- Citrobacter freundii
- Klebsiella oxytoca
- Serratia marcescens
- Citrobacter koseri
- Klebsiella pneumoniae
- Staphylococcus aureus
- Klebsiella aerogenes
- Morganella morganii
- Staphylococcus epidermidis
- Enterobacter cloacae
- Proteus spp.
- Staphylococcus saprophyticus
- Enterococcus faecalis
- Pseudomonas aeruginosa
- Streptococcus agalactiae (GBS)
- Enterococcus faecium
- Providencia rettgeri

## **ANTIBIOTIC RESISTANCE MARKERS**

- mecA (incl MRSA)
- Trimethoprim Resistance 4
- Trimethoprim Resistance 1
- Trimethoprim Resistance 5
- Trimethoprim Resistance 2
- Van A (Vancomycin Resistance A)
- Trimethoprim Resistance 3
- Van B (Vancomycin Resistance B)

## **Methicillin-Resistant Staphylococcus Aureus (MRSA) \*In Development**

### **BACTERIA**

- Methicillin-resistant Staphylococcus aureus (MRSA)
- Methicillin-sensitive Staphylococcus aureus (MSSA)
- Methicillin-resistant coagulase-negative Staphylococci (MRCoNS)

## **Respiratory Tract Infections (RTI)**

### **\*In Development**

#### **VIRAL**

- Influenza A
- Coronavirus OC43/HKU1
- Parainfluenza virus 3 Influenza B
- Enterovirus A/B/C
- Parainfluenza virus 4
- Adenovirus A/B/C/D/E
- Metapneumovirus
- Respiratory syncytial virus A/B
- Bocavirus 1/2/3
- Parainfluenza virus 1
- Rhinovirus A/B/C
- Coronavirus 229E/NL63
- Parainfluenza virus 2

#### **BACTERIA**

- Bordetella parapertussis
- Haemophilus influenzae
- Mycoplasma pneumoniae
- Bordetella pertussis
- Legionella pneumophila
- Streptococcus pneumoniae
- Chlamydomphila pneumoniae
- Moraxella catarrhalis