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GOODBYE  
2020  
HELLO  
2021



Can you believe it—another year finished and another has started! What will 2021 bring us? Health, happiness and prosperity hopefully! But! Who knows? So-lets enjoy it while we can—at Davies Diagnostics that's what we will try and do while we are supporting you—our customers!



## COVID-19 Molecular Diagnosis

GENERATION II

### DIRECT SARS-CoV-2 RealTime PCR Kit



- ◆ **Double target assay:** specific for COVID-19 (*N* gene) and other SARS- related coronavirus (*E* gene).
- ◆ **Multiplex PCR- one single reaction tube** per sample.
- ◆ Suitable for FAM/Cy5/HEX (VIC) qPCR cyclers.
- ◆ **Endogenous human *RNAse P* control-** for detecting improper sample collection or degradation.
- ◆ **Lyophilized** master mix and positive control to ensure stability and reduce transportation costs.
- ◆ **Different kit presentations** for greater user convenience: vials, dispensed strips and plate.
- ◆ **No cross reaction** with common human respiratory CoV or MERS.
- ◆ Fast and reliable **results in less than 2 hours.**
- ◆ In compliance with **international guidelines:** WHO, CDC and ECDC\*

## HP pette Plus HIGH PRECISION Fully Autoclavable

Fully autoclavable The HP-Pette Plus are fully autoclavable enable easy cleaning to reduce the risk of contamination. Steam autoclaving can be performed at 121 °C, 1 bar for 20 minutes. After autoclaving the pipette must be cooled down and left to dry for 12 hours before use. It is recommended to check the performance of the pipette after each autoclaving. Greasing and sealing of the pipette piston after every 10th autoclaving will secure an enhanced function



#### FEATURES

- ◆ Fully autoclavable
- ◆ 8 channel pipette are appropriate for 96-well plates
- ◆ Slim design and light in weight, less risk if strain injuries.
- ◆ Dispensing head rotates for effortless pipetting convenience
- ◆ Individual piston and tip cone assemblies allowing easy repair and maintenance
- ◆ Compound material-made tip cone secures high sealing performance
- ◆ Compatible with most universal tip brands
- ◆ Compatible with most universal tip brands
- ◆ Excellent grip
- ◆ User friendly
- ◆ Large display window allows for easier volume identification
- ◆ Ejector button on the back for easy identification
- ◆ Pipettes cover volume range from 0.1µL to 5mL
- ◆ Easy calibration and maintenance
- ◆ Each pipette is supplied with an individual calibration certificate according to ISO8655 performed in factory
- ◆ CE marked as in vitro diagnostic device according to Directive 98/79/EC.



**EXTRA**ordinary Service

It's that little **"EXTRA"** that makes us the **BEST!**

BARBEE VERIFIED



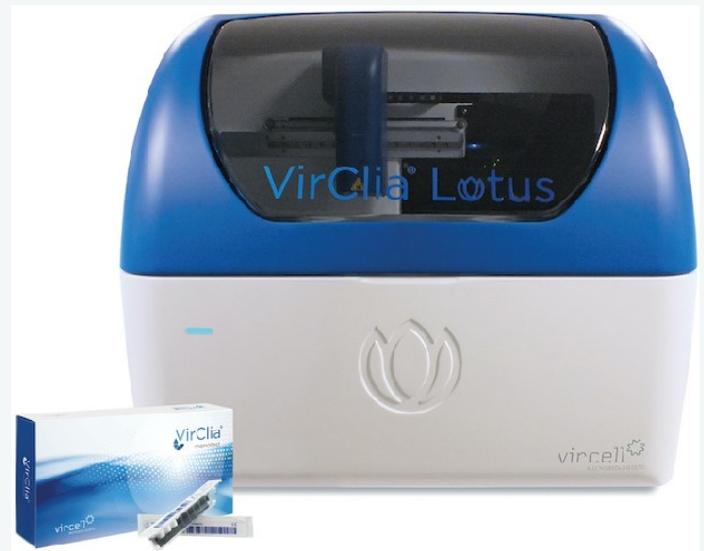
# INVASIVE ASPERGILLOSIS

The reliable result,  
just when you need it

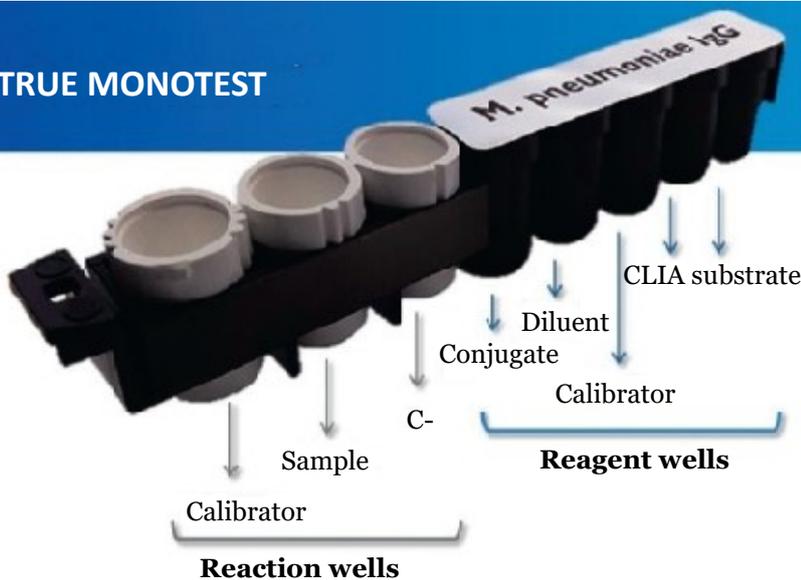
## ASPERGILLUS GALACTOMANNAN Ag VIRCLIA® MONOTEST

Sandwich Chemiluminescent Immunoassay (CLIA) for the detection of *Aspergillus* galactomannan antigen in serum, plasma and human bronchoalveolar lavage (BAL) samples

- Unique and definitive solution for **urgent samples**.
- **Same day results**, no batching, no sample cumulation.
- On-demand testing: **One monotest = one reportable result**. Nothing else is required.
- **Individual Quality Control per monotest**, no need for extra controls or calibrations.
- Simple and **fully automated protocol** with results in about 1h\*.
- **Objective method** with reported results in index values.
- Compatible test with the **broadest panel of infectious diseases in CLIA monotest format (>90 parameters)**.



### THE TRUE MONOTEST



Vircell has launched a new test for the detection of invasive aspergillosis as an aid for the early diagnosis of this life-threatening disease.

A prompt and accurate diagnosis is essential to establish a proper anti-fungal treatment, as a delay of just 12-24 hours may affect the critical patient survival significantly.

Accurate Galactomannan detection also allows to decrease or cancel a prophylactic anti-fungal treatment.

ASPERGILLUS GALACTOMANNAN Ag VIRCLIA® MONOTEST is compatible with the entire Virclia® panel.

ASPERGILLUS GALACTOMANNAN Ag VIRCLIA® MONOTEST is

already part of the work routine in laboratories worldwide and its excellent performance has been proved with internal and external evaluations





# Invasive candidiasis

## Early diagnosis and treatment follow-up

### INVASIVE CANDIDIASIS (CAGTA) IFA IgG (Ref. PCAALG)

Indirect immunofluorescence assay for the diagnosis of invasive candidiasis by means of *Candida albicans* germ tube IgG antibodies\* in human serum.



Additionally, some of the described protocols present difficulties of realization that make impossible their use in clinical microbiology laboratories.

INVASIVE CANDIDIASIS (CAGTA) IFA IgG allows to detect specific antibodies against antigens of the mycelium phase by means of a previous absorption of samples with *C. albicans* yeasts in order to eliminate other antibodies typical of colonized but not infected patients.

The detection of anti-mycelium antibodies allows for discriminating between infection and colonization.

These antibodies are only produced against antigens of the cell wall of *Candida* which are expressed when yeast is in mycelium phase, i.e. when it is infecting the patient.

Invasive candidiasis (IC) is a disease of fungal etiology which presents an increasing incidence, especially affecting immunocompromised patients (transplanted, neutropenic, suffering from AIDS, etc.), long-term hospitalized patients or undergoing extensive surgery, catheterized patients or those following a broad-spectrum antibiotic therapy.

According to the scientific literature, IC has a significant impact on morbidity and mortality, with a direct mortality ranging between 15-35% in adults and 10-15% in infants and children.

#### Diagnosics difficulties

The diagnosis of IC presents serious problems, mainly associated with the absence of pathognomonic symptoms of the disease and the difficulty of isolating the fungus in blood culture.

A prompt and accurate diagnosis for the establishment of an early fungal treatment is essential, since a delay of only 12 hours is associated with a significant increase in mortality.

The techniques so far available in the market have low specificity and sensitivity.



#### Early diagnosis

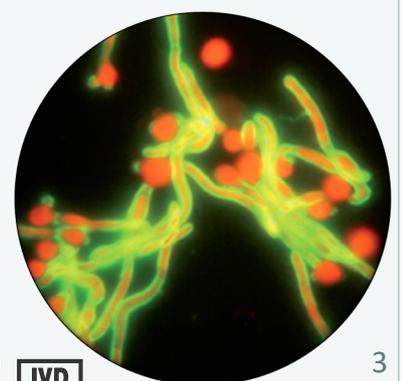
Results in 2 hours with a simple and easy to implement protocol for clinical microbiology laboratories.

#### Discriminating between infection and colonization

Germ tube antibody detection by prior absorption of samples with yeasts of *C. albicans* to remove non-specific antibodies.

#### Monitoring of antifungal therapeutic efficacy

These antibodies become negative in patients with good response to antifungal therapy.



# Customer Feedback

As part of our commitment to ISO9001:2008 we are continuously monitoring feedback from our customers.

We are also continually striving to better our *EXTRA*ordinary Service philosophy.

Should you have any comments, please send them to:

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We're on the web

www.daviesdiagnostics.co.za

# good thinking

*When it comes to making life liveable, small pieces of wisdom are often more valuable than great weighty thoughts!*

## WITTY LITTLE KNITTER

A highway patrolman pulled alongside a speeding car on the highway. Looking at the car, he was astounded to see that the elderly woman behind the wheel was knitting.

The trooper cranked down his window and yelled to the driver, "Pull over!"

"No!" the woman yelled back, "Cardigan!" – *Reddit.com*

# HQ-CHEX



HQ-Chex is a whole blood glucose and hemoglobin quality control assayed for select HemoCue systems.

The control resembles the performance of patient samples and is available in three clinically significant levels.

Its long shelf life reduces the number of shipments, associated costs and time spent performing lot-to-lot correlation.

HQ-Chex is packaged in squeeze dropper vials for accurate sample dispensing, eliminating the need to pipette.

## BENEFITS

Helps clinical laboratories meet quality requirements	Established assay ranges provide less room for error	Long shelf life reduces the number of shipments and associated costs
Fewer lot-to-lot correlations saves time and resources	Access to <i>STATS</i> ®, a free interlaboratory quality control program with peer group data comparison and online submission	

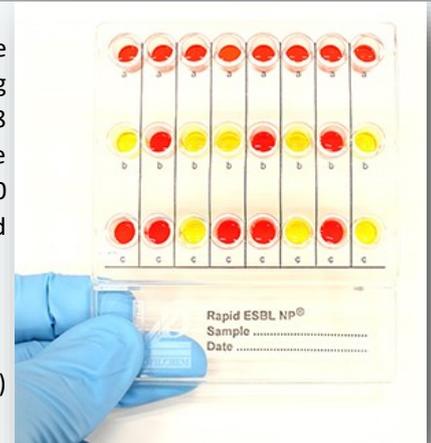


www.streck.com

## Rapid ESBL NP®

System for detection of Extended-Spectrum-β-Lactamase-producing Enterobacteriaceae.

Rapid ESBL NP® test is a 8-test panel used for the identification of ESBL producers among Enterobacteriaceae. A panel allows the ESBL detection of 8 different isolates. The dried up substrata in the wells are rehydrated with a lysed microbial suspension. After 20 minutes incubation at 36±2°C the result is read and interpreted by a clear colour change.



## CONFIGURATION

Tests are placed in columns: each test consists of three (3) wells, each indicated with a letter:

○	○	○	○	○	○	○	○
a	a	a	a	a	a	a	a
○	○	○	○	○	○	○	○
b	b	b	b	b	b	b	b
○	○	○	○	○	○	○	○
c	c	c	c	c	c	c	c

Well **a** does not contain any antimicrobial agent

Well **b** contains a cephalosporin antibiotic (cefotaxime)

Well **c** contains a cephalosporin antibiotic (cefotaxime) plus an ESBL inhibitor (tazobactam)