

# Aura

## CLIA Analyzer

LiNEAR Chemicals S.L.U,  
December 2019





We dedicate our efforts to offer to the market products of the highest quality at competitive prices. We currently offer our products in the following analytical areas:



**CLINICAL CHEMISTRY**



**IMMUNOLOGY**



**GASTROENTEROLOGY**



**COAGULATION**



**HEMATOLOGY**



**RAPID TESTS**



**ELISA**



**LABORATORY EQUIPMENT**

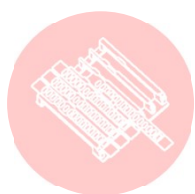
# Features



## Aura CLIA Analyzer



MONOTEST  
FORMAT



### ALL in one cartridge

Cartridge for single test.  
Eliminates cross contamination. No need for reagent handling.



### Flexible

Six parallel channels for random cardiac, inflammation, hormone, etc. tests. Bench-top size fits in any environments.



### Easy

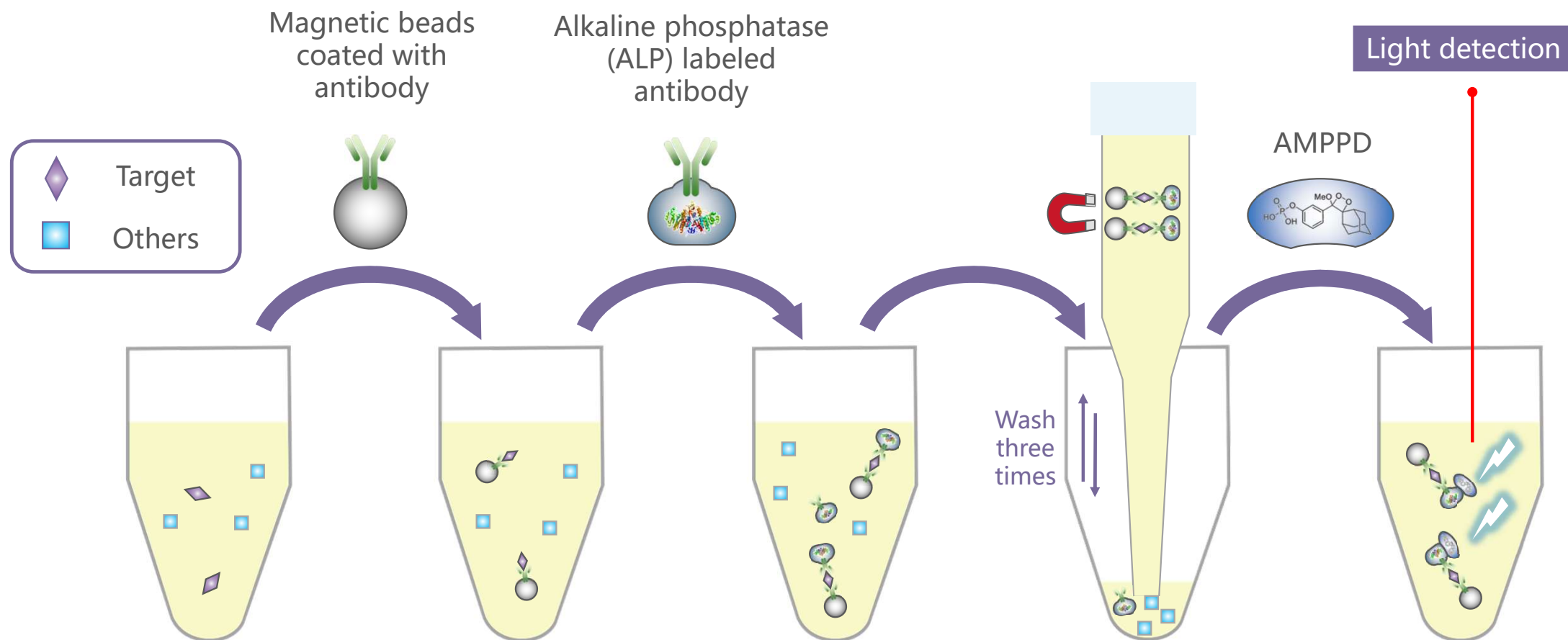
One step operation. Whole blood sample acceptable. No liquid path minimizes maintenance.



### Reliable

Long-lived and stable CLIA provides lab quality results. Great correlation with Roche and Pathfast but lower prices.

# Test Principle – Enzymatic Chemiluminescence



## All-in-one Cartridge

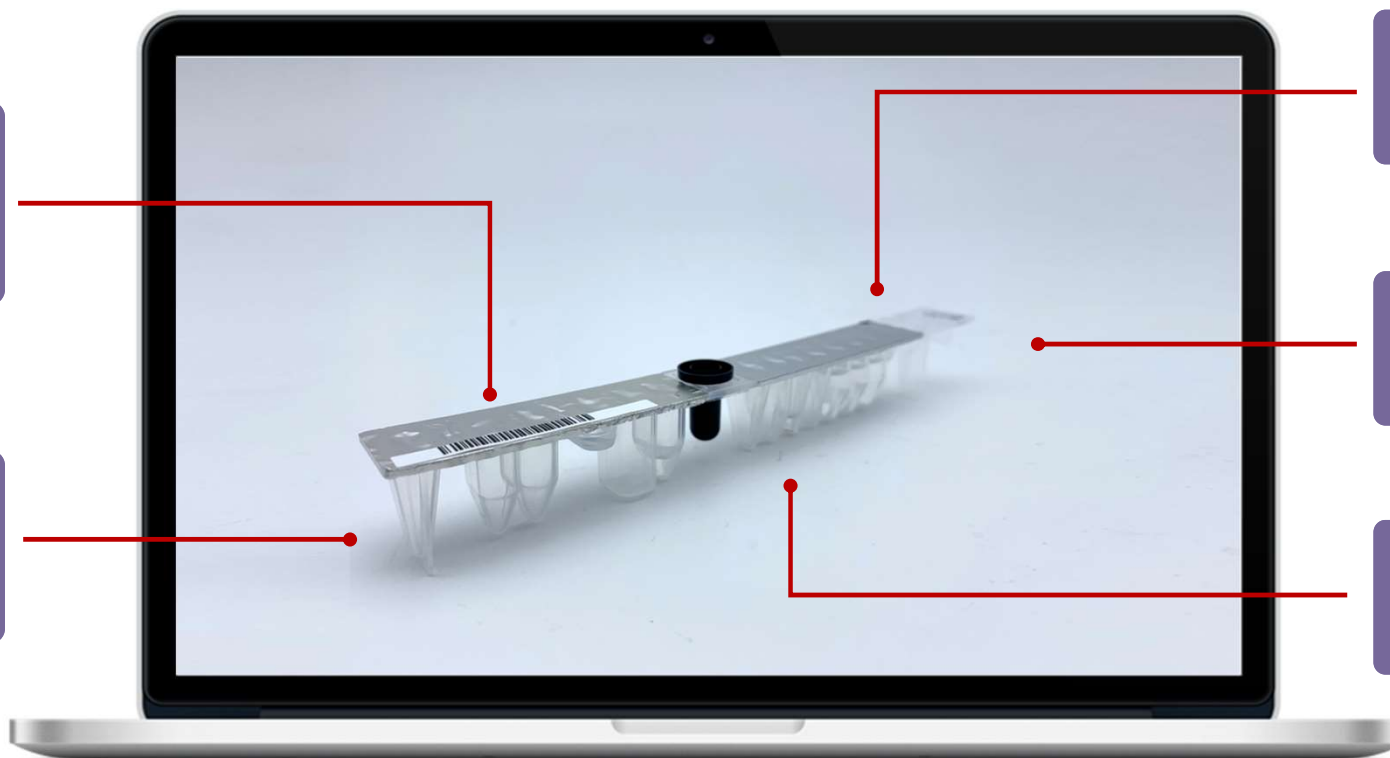
Ready to use  
cartridge for  
single test

No need for  
reagent  
handling

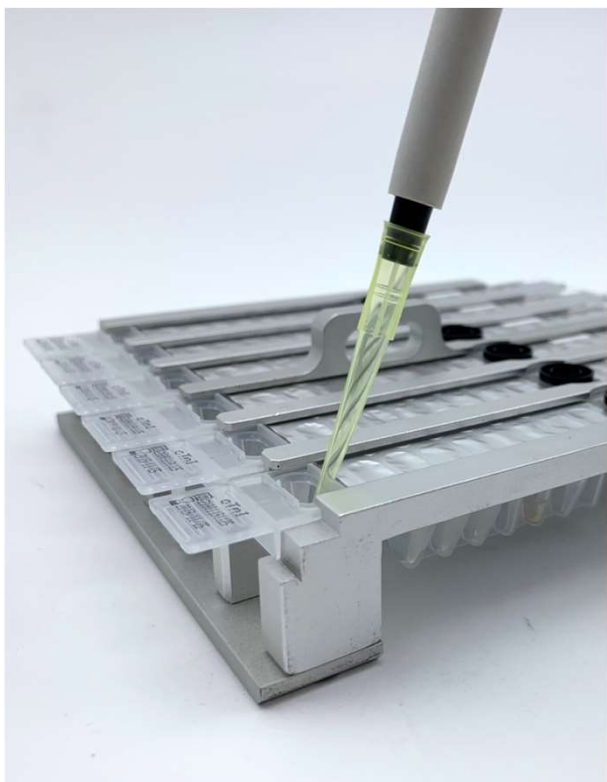
Eliminate cross  
contamination

Magnetic beads for  
separation

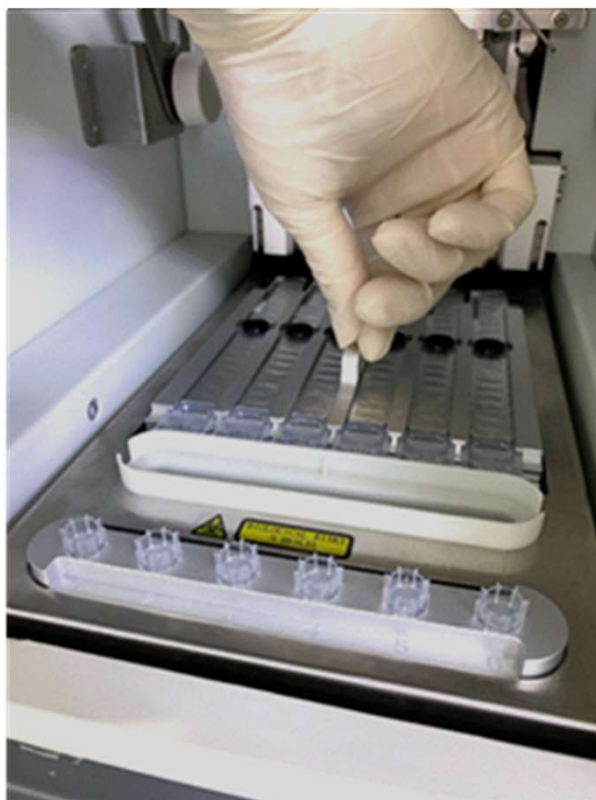
Stable & long-lived  
luminescence



## Easy to Operate



Add sample



Load cartridge



Press start



# Parameters



*\* coming soon*

T3, T4, TSH,  
FT3, FT4

Thyroid

PCT, IL-6

Inflammation

cTnI, CK-MB, Myo,  
NT-proBNP, D-Dimer

Cardiac

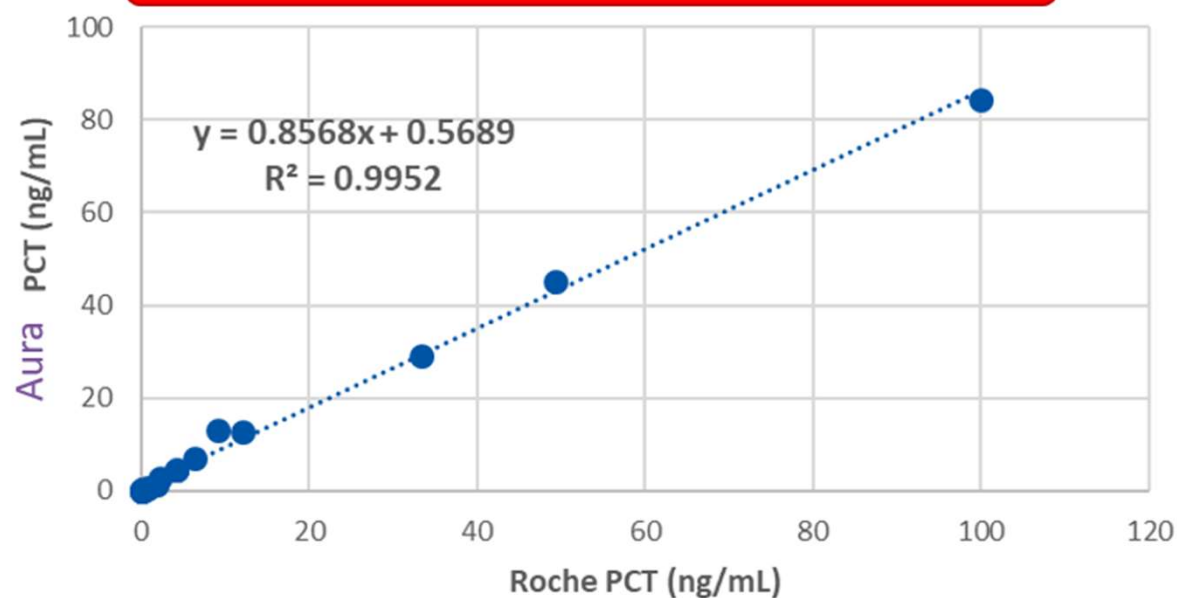
25 (OH) Vitamin D\*

Bone Health

AMH  
 $\beta$ -HCG\*, Progesterone\*

Hormone

Method comparison: Aura PCT vs Roche PCT



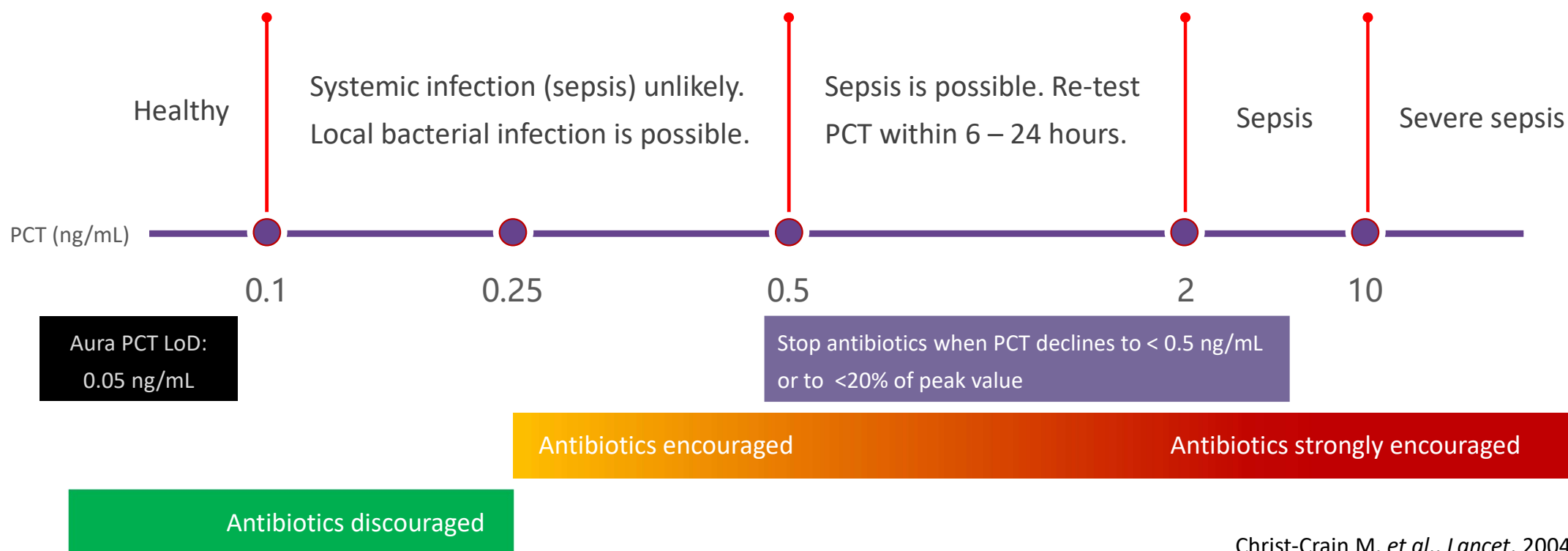
Average Imprecision CV: 2.68%

Method comparison studies demonstrated **GOOD CORRELATION** between **Aura** and other well-established methods.



# Clinical utility of Aura PCT

Procalcitonin (PCT) is a specific and sensitive marker of bacterial infection and sepsis.



Christ-Crain M, *et al.*, *Lancet*, 2004  
de Jong, *et al.*, *Lancet Infect Dis*, 2016

# Cardiac Markers

## Cardiac Troponin I (cTnI)

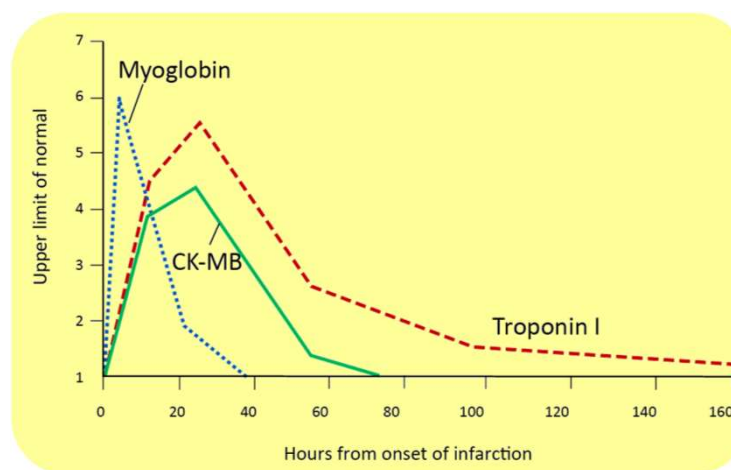
Most specific marker for diagnosis of myocardial infarction (MI); Released into blood when myocardial cells are damaged.

Ref value: < 0.04 ng/mL

## Myoglobin (Myo)

Early marker to assist MI diagnosis; Myo is present in all muscle tissue and may rise non-specifically with any muscle injury.

Ref value: < 52.5 ng/mL



McMurray JJ, et al., Eur Heart J, 2012

## CK-MB

Support MI diagnosis; CK-MB is primarily a cardiac form and may also be elevated in renal or skeletal muscle injury; Assess of re-infarction when cTnI remains elevated from an earlier MI.

Ref value: < 5.25 ng/mL

## NT-ProBNP

Diagnosis and triage of patients of suspected heart failure (HF);

NT-ProBNP in blood reflects the degree of stress on the heart muscle.

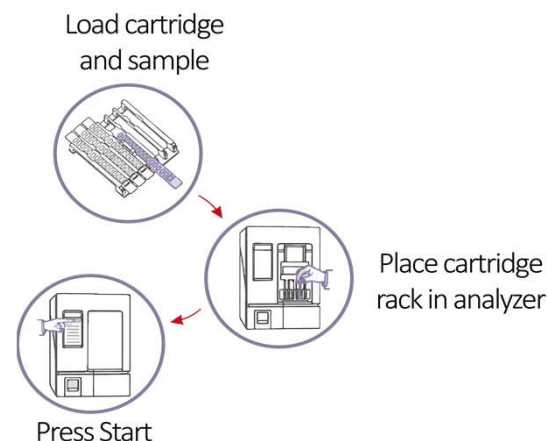
Ref value: < 160.5 pg/mL

# Aura – CLIA SYSTEM



## Features:

- \* One-click operation
- \* Single cartridge for each test
- \* Auto identification of assay by barcode on reagent cartridge
- \* 6 channels for random/batch tests
- \* 15 minutes per run
- \* No liquid path, easy maintenance
- \* LCD touch screen, built-in printer



## Specifications:

- \* Test Method: Enzyma chemiluminescence
- \* Sample volume: 50  $\mu$ L
- \* Pack size: 60 t/kit
- \* Net weight: 40.6 kg
- \* Size 550 mm \* 360 mm \* 550 mm

## More Parameters



### Thyroid

To help evaluate thyroid gland function and to help diagnose thyroid disorder.



### AMH

To evaluate a woman's fertility, predict onset of menopause, suspects PCOS, etc.



### D-Dimer

To help rule out DVT or PE; to help diagnosis and monitor treatment of DIC



### IL-6

Early marker of acute infection; to help differentiate between Gram (+) & (-) bacterial infection

# Aura applications



- **Emergency Dept**

Cardiac markers for early identification of high-risk patients.

- **ICU**











PCT & IL-6 for sepsis diagnosis and monitoring of antibiotics treatment.

- **Primary Care**

Hormone, thyroid and inflammation markers ensures quick treatment.



# Aura vs Conventional CLIA instrument

Aura		VS		Beckman UniCel DxI 600
All in one cartridge; Mono test, no hidden cost		Convenience		Consumable handling needed; Large lab space required
Eliminates cross contamination and minimized maintenance		No liquid path		Cross contamination can be critical when measuring analytes in tiny amount
Competitive reagent price and instrument placement offered		Price		High instrument and reagent cost
Enzymatic ALP-AMPPD CLIA		Principle		Enzymatic ALP-AMPPD CLIA

## Diapositiva 14

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**AT1**

Angela Trinh; 09/12/2019