











## SMART DIAGNOSTICS FOR POINT OF CARE!

HbA1c · CRP





### CERA-STAT™ HbA1c Test Kit

#### **FEATURES & BENEFITS**



#### Gold Standard!

- Boronate Affinity Principle
- HPLC (Tosoh G7) Calibrated
- NGSP (DCCT-traceable) and IFCC certified



#### Fast & Cost-Effective!

- Total assay time less than 3 minutes
- High througput more than 50 tests/hour
- Minimal running cost



#### Accurate & Reliable!

- More than 50 countries' market proven performance



#### Wide Measurement Range!

- 3 ~ 15 % (9~140mmol/mol)
- Hematocrit compensation



Test Kit Specifications		
Principle	Boronate Affinity Chromatography	
Total Assay Time	Less than 3 minutes	
Test Range	3 ~ 15% (9~140 mmol/mol)	
Sample Type	Whole Blood (Capillary or Venous)	
Sample Volume	5μl	
Storage Condition	2~8℃	

#### **TEST PRINCIPLE**

- The CERA-STAT™ HbA1c Test Kit utilizes a boronate affinity assay.



#### TEST PROCEDURE



Mix well 5uL whole blood with R1 reagent and incubate for 2 minutes.



Apply 25uL of R1 mixture to the test



Apply 25uL washing solution to the Test Device (TD).

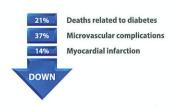


Read the result within 7 seconds.

#### THE IMPORTANCE OF HbA1c

HbA1c test is an important blood test used to determine how well the diabetes is being controlled. (Development and progression of diabetes complications, admissions to hospital, quality of life, mortality.)





## **CERA-STAT™ CRP Test Kit**

#### **FEATURES & BENEFITS**



- · Lab. Instrument Calibrated!
- Olympus AU 400



- Sample Type Free!
- No need to select sample type
- Whole blood / Plasma / Serum



- · Fast & Easy!
- -Total assay time less than 1 minute
- Immediate test result feedback



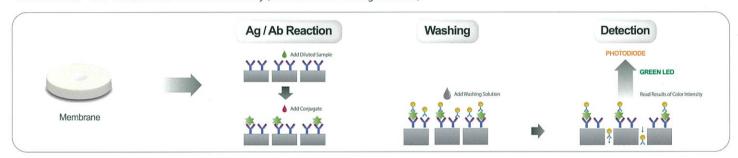
- Cost-Effective!
- Implemented with HbA1c in 1 analyzer
- Minimum running cost



Test Kit Specifications		
Principle	Immunoassay (Optical Reflectance)	
Total Assay Time	Less than 1 minute	
Test Range	3 ~ 220 mg/L	
Sample Type	Whole blood, Serum, Plasma	
Sample Volume	5μl	
Storage Condition	2~8℃	

#### **TEST PRINCIPLE**

- The CERA-STAT™ CRP Test Kit is based on an immunoassy (membrane flow-through method).



#### **TEST PROCEDURE**



Mix well 5uL blood with R1 reagent.



Apply 25uL of R1 mixture to the test device.



Apply 25uL of R2 reagent the test device.



Apply 1 drop of R3 reagent the test tevice.



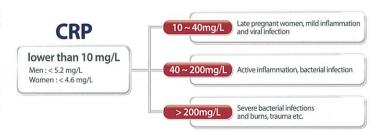
Read the result in 10 seconds.

#### The Importance of CRP

As elevated CRP levels are always associated with photological change, the CRP assay provides information for the diagnosis, therapy and monitoring of inflammatory disease.

Importantly from a diagnostic point of view, high readings are usually seen in bacterial infection, but only low to moderate levels in viral. CRP levels reflect inflammatory activity during treatment, remission and recurrence of the disease. With follow-up CRP Testing, the course of the illness and the efficacy of any antibiotic can therefore be monitored.

#### **Diagnosis Using CRP**



#### CERA-STAT™ HbA1c Test Kit

#### • Within-Run Precision Testing (Venous Blood)

- Each of the samples was measured 30 times per each for precision

Value	Mean HbA1c (%)	CV (%)
Normal	5.5	2.6
Intermediate	8.6	2.5
Elevated	11.7	2.1

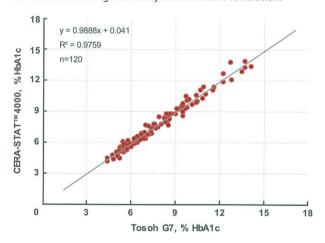
#### Day-to-day Precision Testing (Control Solution)

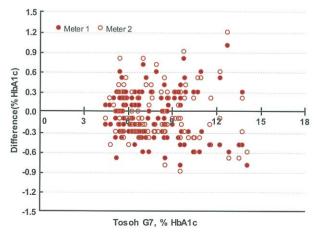
- Each sample was measured 10 times a day for 20 days using 3 meters across multiple lots.

Value	Mean HbA1c (%)	CV (%)
Normal	5.5	2.8
Intermediate	8.5	2.3
Elevated	11.5	2.6

#### Accuracy

- The CERA-STAT™ 4000 system was evaluated at three clinical sites from 120 patients.
- The results show high accuracy and excellent correlation.





#### **CERA-STAT™ CRP Test Kit**

#### Within-Run Precision Testing (Venous Blood)

- Each of the samples was measured 30 times per each for precision

Value	Mean CRP (%)	CV (%)
Normal	9.5	5.4
Intermediate	50.1	4.9
Elevated	99.7	3.6

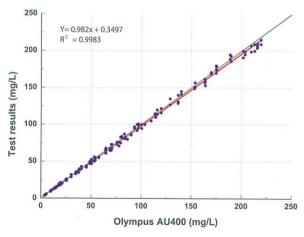
#### • Day-to-day Precision Testing (Control Solution)

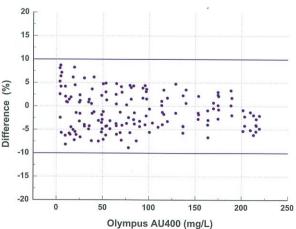
- Each sample was measured 10 times a day for 20 days using 3 meters across multiple lots.

Value	Mean CRP (%)	CV (%)
Normal	9.7	5.9
Intermediate	50.3	4.8
Elevated	98.8	5.1

#### Accuracy

- The CERA-STAT™ 4000 system was evaluated at three clinical sites from 86 patients.
- The results show high accuracy and excellent correlation.





# The high accuracy **POC** analyzer that delivers **lab.** quality results!

#### Fact

Results in less than 3 minutes only

#### Reliable

Lab. quality accuracy and precision Certification - NGSP, IFCC, ISO

#### Cost-Effective

Minimum running cost



**TOUCH SCREEN** 

High resolution, full color LCD touch screen. Easy access to operation.



LOADING

Eliminate erroneous results by simple cartridge insert on auto-loading tray.



**VOICE GUIDE** 

Easy access with simple GUI and clear multilingual voice guide.



IT CONNECTIVITY

USB / RS-232C LIS Compatible Software Update



#### **Specifications**

Display and User Interface	Touch Screen (3.5 inch)	
Detection Methodology	Optical Reflectance	
Temperature Range	10 ~ 40 °C / 50 ~ 104 °F	
Memory	300 Tests	
Operation Condition	Temp.: 15~35°C / Humi.: 15~75°	
Dimension	178 X 195 X 77(mm)	
Weight	730g (instrument only)	



**QUALITY MANAGEMENT** 

Easy quality control with control solution.



BUILT- IN THERMAL PRINTER

No need to purchase printer separately.



PATIENT ID / OPERATOR ID

Retrieve Patient ID (PID) and Operation ID (OID) with kev-in and bar-code scanner.



PIPETTE GUIDE

Easy and safe handling of samples by simple pipetting guide.

# CERA-STAT™4000

Smart Diagnostics for Point of Care!

#### CERA-STAT™ 4000 Analyzer

**Product Name** 

1 printer paper roll 1 user manual

#### CERA-STAT™ HbA1c Test Kit

**Product Name** 

CERA-STAT™ HbA1c Test Kit

R1 reagent 30tubes Test Device 30units

#### CERA-STAT™ 4000 Accessories and Spare parts

**Product Name** 

Pipette Capillary Tube Pipette Tip Printer Paper Lancet Lancing Device

**Pipetting Guide** 

Contents

1 Pack(30 pc, 5uL) 1 Pack(1000 pcs)

1 box (200 pcs)

1 ea 3 ea

#### CERA-STAT™ 4000 Control solution

Contents

CERA-STAT™ HbA1c Control Solution CERA-STAT™ CRP Control Solution

2 levels x 1.5 ml/box 2 levels x 1.0 ml/box

#### CERA-STAT™ CRP Test Kit

**Product Name** 

CERA-STAT™ CRP Test Kit

R1 reagent 32tubes Test Device 30units R2 reagent 1vial R3 reagent 1vial



Manufactured by GREEN CROSS MEDIS CORP. Distributed by GREEN CROSS MEDICAL SCIENCE CORP. H.Q.: 107, Ihyeon-ro 30beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do,446-770, Korea

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