



# POINT OF CARE (POCT) FULL AUTOMATIC DRY BIOCHEMISTRY ANALYZER

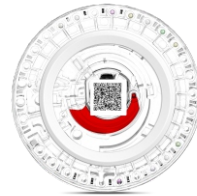
Immediate Results  
Anywhere Anytime



## Optional Accessories



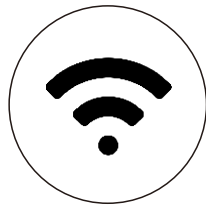
SD1 POCT  
Chemistry Analyzer



Reagent Disc  
(Consumable)



**POCT**  
Chemistry Solution



Internal Wi-Fi  
Dongle



USB Memory



Pipette Tips



Lithium Heparin  
Anticoagulate Tube



Pipette

## Immediate Results Anywhere Anytime

Founded in 2012, Chengdu Seamaty Tehchnology Co.,Ltd specializes in the Research & Development, production and marketing of POCT chemistry analyzers. Seamaty is accredited as a high-tech enterprise by the Sichuan provincial government. Our standard GMP plants which are certified by TUV for ISO 13485:2016 develops and manufactures our CE listed products. In China, Seamaty is certified by CFDA for "Medical Device Production License" and Product Registration Certification. Acknowledge and recognized by the Chinese Government as a high-tech enterprise, Seamaty has registered many intellectual property and patent for inventions. We currently distribute to over 70 countries around the world including many European countries.

## SD1

Sample volume:	90–120ul
Bar code:	QR code
Testing time:	12minutes/sample
Temperature:	37°C±0.3°C
Resolution:	0.001Abs
Absorbance:	0–3.0Abs
Sample type:	Anti-coagulation whole blood, serum, plasma
QC&Calibrate:	IQC intelligent QC
Work condition:	Temperature:10-30°C Humidity: < 30%-70%
Testing principle:	Absorption spectroscopy, transmission turbidimetry
Testing method:	End point, kinetic, fixed time, turbidimetry etc
Light source:	12V/20W, halogen tungsten lamp's life span is over 2500 hours
Power supply:	AC100V-240V, 50-60Hz
Power:	Output: 15A=7.0A, 105W MAX
Display:	Android 7.0 inch 800*480, multi-point capacitive touch screen,multilingual choice
Storage:	500,000 results
Printer:	Built-in thermal printer
Connectors:	4 USB ports,1 LAN port
Order code:	A00128000EH0



## SD1

Equipped with the latest medical and technological innovations, we have invented a state-of-the-art portable automatic biochemistry analyzer SD1 which provides a better, quicker and accurate diagnosis for blood analysis.



Test up to 27 parameters in total



Test results in 12 minutes



Simple operation

### Little Sample Volume Required

Sample volume needed is 1/10–1/20 of traditional chemistry analyzer.

### Easy to Carry

4.2Kg. The portable analyzer is designed to save space, use it anywhere anytime.

### Less Maintenance

No consumables needed such as tubes, pump, valve etc, saving your maintenance expenses.

### Accurate Result

Using the photoelectric colorimetric principle, the SD1 analyzer has many advantages versus traditional dry biochemistry analyzer using the light reflection method. Dilution of test sample is guaranteed without random errors and cross contaminations.

## EASY 3-STEPS OPERATION

All steps are automated from centrifugation, dilution, quality control to test result printing.



### 1. Insert Sample (100ul )

No sample pretreatment needed.  
only 100ul of whole blood / serum / plasma needed.



### 2. Insert Reagent Disc (12 minutes testing time)

Maintenance free and easy to use in a field or mobile setting. Key parts imported from USA.  
Internal centrifugation of test sample. No internal liquids or pumps.



### 3. Interpret result (immediately)

Reads results using the photoelectric colorimetric principle. No random error or cross infection possible.  
Automatically prints result.

Transfer results to PC



Build test results database  
(LIS System)



Quick Accurate Diagnosis

| [www.seamaty.cn](http://www.seamaty.cn) |

## FAQ

### 1. Can expired disc be used in the SD1?

No. The analyzer has a built-in sensor for determine if the disc has expired. If the disc is beyond the expiration date, the analyzer will cancel the run and display a code error message.

### 2. What is the shelf life of the test reagent disc?

The shelf life of a test reagent disc is 12 months (see package for expiration date). Seamaty recommends that disc should be stored and refrigerated at 2-8° C (36-46° F). Discs stored above 8° C will degrade faster throughout their shelf life.

### 3. Do discs require warm-up time before use?

Yes. We recommend that disc be used after 20 minutes warming up when it is taken out of refrigerator for optimal performance.

### 4. Can the discs be reused?

No. The discs are single-use, one disc is for one patient. They are considered a bio-hazard and should be disposed of in proper containers.

### 5. What types of samples can be used with the SD1?

Lithium-heparin whole blood, lithium-heparin plasma, or serum, Do not use EDTA as an anti-coagulant.

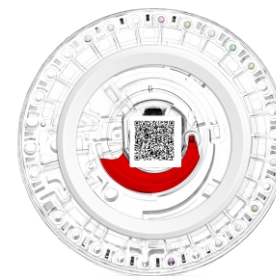
### 6. What is the proper tubes for blood sample collection?

Seamaty offers enough FOC tubes (lithium heparin), pipette and pipette tips after your reagent disc order. Do not use EDTA tube.

## Disposable reagent disc

7 medical chemistry profiles with 27 Parameters in total.

It is freeze-drying single-use plastic test reagent disc with 12 months lifespan at the temperature of 2-8°C, The diluent contains in the rotor. The QR code not only includes the basic information of rotor, but has the functions to update system of analyzer and to set zone code.



### Seamaty Reagent Disc Introduction

Born from space technology research, Seamaty reagent disc is fully self-contained single-use chemistry reagent disc designed to address a variety of conditions. Just 3-4 drops (100 ul) of whole blood are required to offer many accurate results.

### QC Intelligent Quality Control

The SD1 test reagent disc contains a complicated onboard quality control system which continually monitors the disc function to ensure reaction stability and optimal disc performance. IQC is the engine that drives the SD1 accuracy and precision.








### Correlation

In countless central-lab correlation studies, the accuracy, precision and reproducibility of the SD1 Chemistry Analyzer has been proven and approved by the most respected hospitals and commercial laboratories in the world.

# DISPOSABLE TEST KIT

( 7 Chemistry Profiles with Different Parameters in One Solution )

The test kit consists of freeze-dried reagent beads, diluent and QR code.  
Single use with 12 months lifespan (2-8°C storage temperature).

*calculated parameter		Albumin	Alkaline Phosphatase	Alanine Aminotransferase	Amylase	Aspartate Aminotransferase	Calcium	Cholesterolase	Chlorine	Creatine Kinase	Creatinine	Glucose	Gamma-glutamyltransferase	Potassium	High-density Lipoprotein	Magnesium	Sodium	Phosphorus	Bile Acids	Total Bilirubin	Total Cholesterol	Carbon Dioxide	Triglycerides	Total protein	Uric Acid	Urea nitrogen	α-HBDH	Lactate Dehydrogenase	Globulin	Urea Crea	ALB, Glob	Low-density Lipoprotein	
Analyte ( Full Name )		ALB	ALP	ALT	AMY	AST	Ca	CHE	Cl <sup>-</sup>	CK	CREA	GLU	GGT	K <sup>+</sup>	HDL	Mg <sup>2+</sup>	Na <sup>+</sup>	PHOS	TBA	TB	TC	CO <sub>2</sub>	TG	TP	UA	UREA	HBDH	LDH	GLOB*	U/C*	A/G*	LDL*	
 <b>General Chemistry Kit</b> PN:AW00002	17	•	•	•	•	•					•	•	•								•	•	•	•	•			•	•	•			
 <b>Health Check Kit</b> PN:AW00194	16	•		•	•	•	•			•	•	•						•		•			•	•		•		•	•	•			
 <b>Liver Function Kit</b> PN:AW00131	12	•	•	•	•	•		•				•							•	•			•					•		•			
 <b>Renal Function Kit</b> PN:AW00088	9	•					•				•	•						•				•			•	•			•				
 <b>Electrolyte Kit</b> PN:AW00246	7						•		•				•		•	•	•	•				•											
 <b>Lipid Kit</b> PN:AW00353	7			•		•					•			•							•		•									•	
 <b>Cardiac Kit</b> PN:AW00411	4					•				•																•	•						

Coming soon: LPS(Lipopolysaccharide), DBIL(Direct bilirubin)