



seamaty

Lab 3Dx

ALL-IN-ONE · ACCURATE · FAST



Blood Gas & Electrolyte Test Cartridge

Comprehensive parameter menu on a single test card minimizes test time and reduces cost per test; Integrated calibration and quality checks prior to sample application eliminates redraws.

*Store under 10°C~30°C for a shelf life of 7 months.
Store under 2°C-8°C for a shelf life of 12 months.



Blood Gas & Electrolyte Parameters

Measured parameters				Calculated parameters	
pH	pO ₂	pCO ₂	K ⁺	tCO ₂ *	cHCO ₃ ⁻ *
Na ⁺	Cl ⁻	Ca ²⁺	Hct	BE(ecf)*	cSO ₂ *
Glu	Lac	BUN [#]	Crea [#]	AG*	BE(b)*
				cHgb*	

* Calculated parameters
Under development parameters

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Chemistry + Immunoassay + Blood Gas & Electrolyte



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Chengdu Seamaty Technology Co., Ltd has dedicated in the medical and veterinary diagnostic field since 2012, providing point-of-care testing (POCT) equipment worldwide. We have passed ISO 13485:2016 international quality management system certification. Our factory has equipped with full-automatic production lines plus our professional quality control team to ensure high productivity and premium quality of products. Seamaty has subsidiaries in Shenzhen, Germany, Russia, Thailand, Singapore, Egypt, Turkey, Brazil, and Poland while worked with dozens of partners around the world, and you could find our products and services in more than 140 countries and regions.

10+

Focus on POCT for more than 10 years, providing diagnostic solutions for the medical and veterinary.

620+

Have a young, professional and innovative team with R&D personnel more than 25% of total employees.

10000

Office and production size over 10000 m² with 8 production lines, including 3 advanced automatic production lines.

11

Seamaty has 11 companies, headquartered in Chengdu, China. We have 2 domestic subsidiaries, 8 overseas subsidiaries, and 2 R&D centers.

Lab 3Dx

Seamaty Lab 3Dx integrates chemistry, fluorescent immunoassay and blood gas & electrolyte in one device, and can test maximum five samples at the same time. It is fully automatic and easy to operate, thereby improving process efficiency and minimizing the workload of testing. It is small size, highly integrated, with built-in intelligent real-time quality control system and advanced technology, providing accurate test results for veterinarians, and is an ideal laboratory solution for veterinary clinics and hospitals.

- The chemistry diagnosis system has been verified by the market with its accuracy and reliability. Advanced microfluidics technology achieves miniaturization and automation. It is compatible with sector rotor to run maximum 3 tests at a time.
- This fluorescent immunoassay system adopts rare-earth nanocrystals based fluoro-immunochromatography to fulfill an accurate and stable test result.
- The blood gas & electrolyte system uses the advanced biosensing technology to realize the monitoring of blood gas, electrolytes and biochemical items in a small test cartridge.

Space Saving

Discover a more efficient use of laboratory counter space with the analyzer's compact footprint.

Broad Test Menu

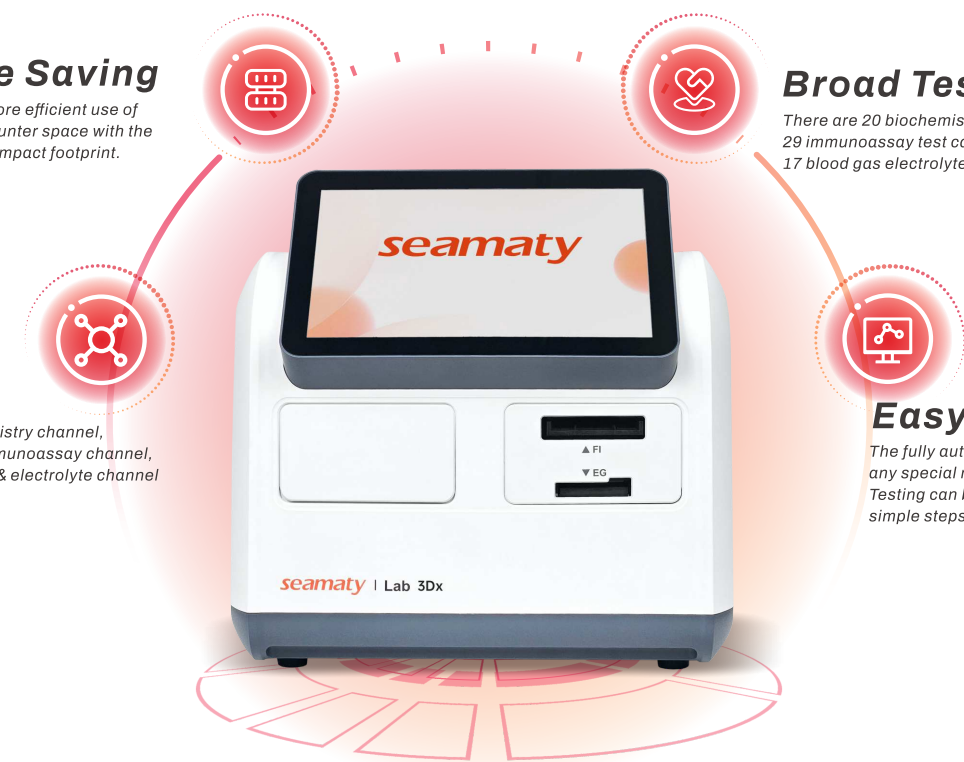
There are 20 biochemistry test profiles, 29 immunoassay test cards and 17 blood gas electrolyte parameters.

3-in-1

Combine one chemistry channel, one fluorescent immunoassay channel, and one blood gas & electrolyte channel in one device.

Easy to Use

The fully automatic system without any special requirements for operators. Testing can be performed in several simple steps.



Specifications

	Chemistry	Blood gas & electrolyte	Fluorescent immunoassay
Sample Type	Whole blood, serum, plasma	Arterial or venous whole blood	Whole blood, serum, plasma, secretion etc.
Sample Volume	Circular rotor: 100 µl; Sector rotor: 60-120 µl	100 µl	100 µl
Barcode	QR code	QR code	QR code
Testing Principle	Absorption spectroscopy, transmission turbidimetry	Electrochemistry	Fluorescent immunochromatographic assay
Testing Method	Endpoint, kinetic, two-point method	Resistance, current, conductance	Competitive, sandwich etc.
Temperature	37±0.3°C	37±0.3°C	/
Test Channel	Chemistry , blood gas & electrolyte, fluorescent immunoassay		
Working Condition	Temperature:5-32°C; Humidity: ≤85%	Voltage	AC100 ~ 240V, 50/60Hz;
Power	100VA	Storage	MAX 500,000 results
Connectors	4 USB ports; 1 LAN port	Display	inch 800*480px
Printer	Built-in printer	Printer paper size	57*50mm
Dimension	300mm*220mm*300mm	Weight	6KG

Test Menu of Chemistry

Support of circular rotor and sector rotor

Circular rotor



Sector rotor



Test Menu of Circular Rotor

24 Comprehensive Test Plus

Order Code: **AW01980**

Parameters

Note: Parameters with * are calculated values

ALB ALP ALT AMY AST Ca CK Crea GLU GGT LDH LPS
PHOS TBA TB TC tCO₂ TG TP BUN UA A/G* B/C* GLOB*

16 Comprehensive Diagnostic Parameters

Order Code: **AW02015**

Parameters

Note: Parameters with * are calculated values

ALB ALP ALT AMY CHE K⁺ Na⁺ Crea GLU TB TP UA
BUN A/G* B/C* GLOB*

16 Health Check Parameters

Order Code: **AW01981**

Parameters

Note: Parameters with * are calculated values

ALB ALT AMY AST GLU CK Ca Crea BUN TB TG TP
PHOS A/G* B/C* GLOB*

10 Primary Diagnostic

Order Code: **AW00686**

Parameters

Note: Parameters with * are calculated values

ALB ALP ALT Crea GLU TP BUN A/G* B/C* GLOB*

13 Electrolyte Plus Parameters

Order Code: **AW01985**

Parameters

Note: Parameters with * are calculated values

BUN Ca Cl⁻ K⁺ Mg Na⁺ PHOS tCO₂ pH LAC Crea GLU
B/C*

10 Pre-operation Test Parameters

Order Code: **AW01982**

Parameters

Note: Parameters with * are calculated values

ALP ALT AST CK Crea GLU LDH TP BUN B/C*

9 Kidney Function Parameters

Order Code: **AW02991**

Parameters

Note: Parameters with * are calculated values

ALB Crea Ca GLU PHOS UA BUN tCO₂ B/C* Cys C (canine)

12 Feline Inflammation

Order Code: **AW01987**

Parameters

Note: Parameters with * are calculated values

f-SAA BUN Crea ALB LPS TBA ALP GGT TP A/G* B/C* GLOB*

11 Liver Function Parameters

Order Code: **AW01984**

Parameters

Note: Parameters with * are calculated values

ALB ALP ALT AST GGT TBA TB TC TP A/G* GLOB*

6 Canine Inflammation

Order Code: **AW02014**

Parameters

Note: Parameters with * are calculated values

AMY Crea LPS BUN c-CRP B/C*

9 Diabetes Test Parameters

Order Code: **AW01364**

Parameters

ALT AMY AST GLU LPS TC TG LAC FRU

4 Coagulation Parameters

Order Code: **AW00650**

Parameters

PT APTT TT Fib

● Test Menu of Sector Rotor

6 Primary Diagnostic Test

Order Code
AW03932

Note: Parameters with * are calculated values

ALP ALT AST BUN Crea B/C*

4 Kidney Function Test

Order Code
AW04053

Note: Parameters with * are calculated values

PHOS BUN Crea B/C*

3 Liver Function Test

Order Code
AW04051

ALT GGT TB

4 Diabetes Test

Order Code
AW03935

GLU FRU TC TG

5 Electrolyte Test

Order Code
AW04052

Note: Parameters with * are calculated values

PHOS Cl⁻ K⁺ Na⁺ Ca

Single Test

ALT BUN Crea AST TBA

Immunoassay Parameters

Categories	Item Name	Sample Type	Sample Volume (μL)	Detection Time
Inflammation	c-CRP Test Kit	Whole blood /plasma or serum	Whole blood: 5 μL Serum / plasma: 2.5 μL	5 min
	f-SAA Test Kit	Whole blood /plasma or serum	Whole blood: 10 μL Serum / plasma: 5 μL	10 min
	cPL Test Kit	Plasma or serum	10 μL	10 min
	fPL Test Kit	Plasma or serum	50 μL	10 min
Antibody of Feline/Canine	Anti-cLSH Test Kit	Plasma or serum	50 μL	10 min
	Anti-fIV Test Kit	Plasma or serum	10 μL	10 min
	Anti-cDV Test Kit	Plasma or serum	10 μL	10 min
	Anti-cPV Test Kit	Plasma or serum	10 μL	10 min
	Anti-fPV Test Kit	Plasma or serum	10 μL	10 min
	Anti-fCV Test Kit	Plasma or serum	10 μL	10 min
	Anti-fHV Test Kit	Plasma	10 μL	10 min
	Anti-fCoV Test Kit	Whole blood /plasma or serum/ ascites	Whole blood/ascites:5μL Plasma/serum: 2.5μL	10 min
Disease of Feline/Canine	fPV Ag Test Kit	Anal swab	Moderate amount	10 min
	fCoV Ag Test Kit	Anal swab	Moderate amount	10 min
	fHV Ag Test Kit	Eye, mouth and nose swab	Moderate amount	10 min
	feLV Ag Test Kit	Plasma or serum	10 μL	10 min
	fCV Ag Test Kit	Eye, mouth and nose swab	Moderate amount	10 min
	cPV Ag Test Kit	Anal swab	Moderate amount	10 min
	cDV Ag Test Kit	Eye, mouth and nose swab	Moderate amount	10 min
	cCV Ag Test Kit	Anal swab	Moderate amount	10 min
	cHW Ag Test Kit	Plasma or serum	100 μL	10 min
	GlA Ag Test Kit	Anal swab	Moderate amount	10 min
	cTSH Test Kit	Plasma or serum	100 μL	10 min
	Prog Test Kit	Plasma or serum	50 μL	10 min
Hormones	cCor Test Kit	Plasma or serum	10 μL	10 min
	TT4 Test Kit	Plasma or serum	50 μL	10 min
	cNT-proBNP Test Kit	Plasma or serum	20 μL	10 min
	fNT-proBNP Test Kit	Plasma or serum	100 μL	10 min
Disease of Heart				
Renal function	Cys C Test Kit	Plasma or serum	2 μL	10 min