Immunoassay Parameters

Under development 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	4 min
	f-SAA Test Kit	Whole blood /plasma or serum	Whole blood: 5 μL Serum / plasma: 2.5 μL	5 min
	cPL Test Kit	Plasma or serum	10 μL	10 min
	fPL Test Kit	Plasma or serum	20 μL	10 min
Antibody of Feline/Canine	Anti-fPV/Anti-fHV/ Anti-fCV Test Kit #	Plasma or serum	10 μL	10 min
	Anti-cPV/Anti-cAV 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 or serum	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	7 min
	fCoV Ag Test Kit #	Anal swab	Moderate amount	7 min
	fHV Ag Test Kit	Eye, mouth and nose secretions	Moderate amount	10 min
	fCV Ag Test Kit	Eye, mouth and nose secretions	Moderate amount	10 min
	cPV Ag Test Kit	Anal swab	Moderate amount	7 min
	cDV Ag Test Kit	Eye, mouth and nose secretions	Moderate amount	10 min
	cCV Ag Test Kit	Anal swab	Moderate amount	7 min
	cHW Ag Test Kit #	Plasma or serum	20 μL	10 min
	cPV Ag / cCV Ag Test Kit #	Anal swab	Moderate amount	10 min
Hormones	cTSH Test Kit	Plasma or serum	100 μL	10 min
	cProg Test Kit	Plasma or serum	50 μL	10 min
	cCor Test Kit	Plasma or serum	10 μL	10 min
	cTT4 Test Kit	Plasma or serum	Plasma/serum: 20 μL Dissociation solution:10μL Stand for 10 min	10 min
Disease of Heart	cNT-proBNP Test Kit	Plasma or serum	100 μL	10 min
	fNT-proBNP Test Kit	Plasma or serum	100 μL	10 min
Renal function	Cys C Test Kit #	Plasma or serum	10 μL	10 min



Blood Gas & Electrolyte Test Card



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℃~30℃ for a shelf life of 7 months.
Store under 2℃-8℃ for a shelf life of 12 months.

Blood Gas & Electrolyte Parameters

Measured parameters			
pH	pO_2	pCO_2	K^+
Na^+	Cl^-	Ca^{2+}	Hct
Glu#	Lac#		

Calculated parameters	
tCO_2*	$cHCO_3^{-}$*
BE(ecf)*	cSO_2*
AG*	BE(b)*
cHgb*	

* Calculated parameters
# Under development parameters

seamaty

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Veterinary Blood Gas Electrolyte Immunoassay Analyzer

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VG2

VETERINARY BLOOD GAS ELECTROLYTE IMMUNOASSAY ANALYZER

Blood gas, electrolyte and immunoassay testing in one device



www.seamaty.com

VG2

VETERINARY BLOOD GAS ELECTROLYTE IMMUNOASSAY ANALYZER

With innovation, Seamaty provides a new diagnosis solution for veterinarians. The VG2 analyzer combines fluorescence immunoassay, blood gas and electrolyte analysis in one device. Easy to use and portable, the Seamaty VG2 delivers laboratory quality and reliable results in 4-10 minutes, providing diagnosis for disease, immunity, inflammatory of canines and felines, before and after surgery, and critical situations.



Blood Gas & Electrolyte

Using the advanced biosensing technology, the complex detection is integrated on a small card to realize the monitoring of blood gas, electrolytes and biochemical items in the blood. Our real-time intelligent quality control system ensures reliable results with automatic quality control checks before and during every sample run.

Immunofluorescence

This fluorescent immunoassay system adopts our self-developed rare-earth nanocrystals based fluoro-immunochromatography. Rare-earth nanocrystal has an excellent characteristic in stability and anti-interference with features of eco-friendly and non-toxic. High sensitivity and specificity, this system provides an accurate, reliable and fast test results in veterinary diagnosis.

High Sensitivity

The high light efficiency of the rare-earth nanocrystal with less noise improves the sensitivity.

Extreme Stability

The rare-earth nanocrystal shows a high chemical stability even in an extreme environment.

Accurate Results

The fluorescent signal generated by the rare-earth nanocrystal excited by infrared light will not cause background interference and no photobleaching, which ensures the authenticity of the fluorescent signal, and the accuracy.

Product Features

2 in 1

- Combine fluorescence immunity and blood gas & electrolyte platform in one device
- Up to 28 immunoassay parameters and 17 blood gas electrolyte parameters

Efficient and Fast

- Simultaneously test of immunoassay and blood gas & electrolyte
- Get test results in 4-10 minutes
- Streamline patient-testing workflow

Easy to Use

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

Accurate

- Advanced electrode technology for blood gas
- Rare-earth nanocrystal biological probes for stable, accurate and sensitive results
- Automatic calibration to ensure instrument measurement accuracy

Specifications

Sample Type	Whole blood, serum, plasma, secretion etc.
Sample Volume	2.5 - 100 µl
Methodology	Fluorescence immunochromatographic assay; Blood gas electrochemical technology
Test Time	4-10 minutes
QC & Calibration	Real-time full-auto finish
Display	7 inch 800*480px
Storage	MAX 500,000
Rated Power	36VA

DC connector	DC 5.5
Power Supply	12V 3A
Connectors	4 USB ports; 1 LAN port
Dimension	240mm*200mm*135mm
Net Weight	2KG
Printer	Built-in thermal printer
Operating Environment	Operating temperature: 5-32℃ Humidity ⩽ 85% Keep away from strong electromagnetic interference sources