

Veterinary Blood Gas
& Immunoassay
Analyzer

seamaty

VG2

VETERINARY BLOOD GAS & IMMUNOASSAY ANALYZER

Blood gas, electrolyte and immunoassay testing in one device



www.seamaty.com



VG2

VETERINARY BLOOD GAS & 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.

Extremely Stable

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 immunoassay and blood gas & electrolyte platform in one device
- Up to 21 immunoassay parameters and 22 blood gas parameters

Efficiency 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

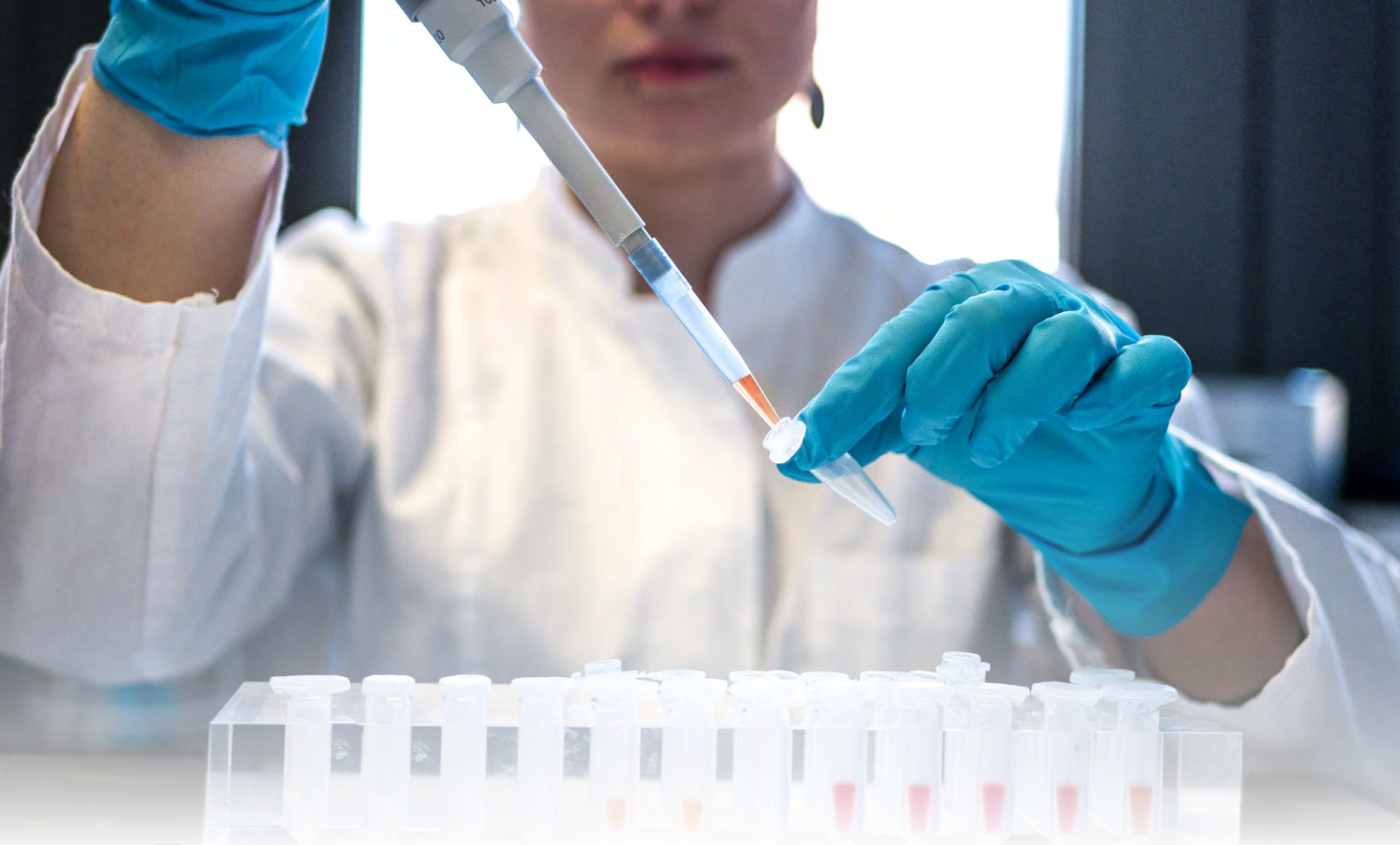
- Advanced electrode technology for blood gas
- Rare-earth nanocrystal biological probes for stable, accurate and sensitive results
- Automatic calibration to ensure instrument measurement accuracy

Specifications

Sample Type	Whole blood, serum, plasma, secretion etc.	DC connector	DC 5.5
Sample Volume	2.5 - 100 μ L	Power Supply	12V 3A
Methodology	Fluorescence immunochromatographic assay; Blood gas electrochemical technology	Connectors	4 USB ports; 1 LAN port
Test Time	4-10 minutes	Dimension	240mm*200mm*135mm
QC & Calibration	Real-time full-auto finish	Net Weight	1.95KG
Display	7 inch 800*480px	Printer	Built-in thermal printer
Storage	MAX 500,000	Operating Environment	Operating temperature: 5-32 $^{\circ}$ C Humidity \leq 85% Atmospheric pressure: 86.0kPa ~ 106.0kPa Keep away from strong electromagnetic interference sources
Rated Power	36VA		

Immunoassay Parameters

Categories	Item name	Sample type	Sample volume(μ L)	Detection time
Inflammation	Canine C-reactive protein Rapid Test Kit	Whole blood /plasma or serum	Whole blood: 5 μ L Serum/plasma: 2.5 μ L	4mins
	Feline serum amyloid A Rapid Test Kit	Whole blood /plasma or serum	Whole blood: 5 μ L Serum/plasma: 2.5 μ L	5mins
	Canine pancreatic-specific lipase Rapid Test Kit	Plasma or serum	10 μ L	10mins
	Feline pancreas-specific lipase Rapid Test Kit	Plasma or serum	10 μ L	10mins
Antibody of Feline/Canine	Feline panleukopenia virus /Feline Herpesvirus/ Feline Calicivirus 3 in 1 antibodies Rapid Test Kit	Heparin lithium/ EDTA anticoagulant plasma	10 μ L	7mins
	Feline panleukopenia virus antibodies Rapid Test Kit	Whole blood /plasma or serum	Whole blood: 5 μ L Serum/plasma: 2.5 μ L	10mins
	Canine parvovirus antibodies Rapid Test Kit	Whole blood /plasma or serum	Whole blood: 5 μ L Serum/plasma: 2.5 μ L	10mins
	Canine Distempervirus antibodies Rapid Test Kit	Whole blood /plasma or serum	Whole blood: 5 μ L Serum/plasma: 2.5 μ L	10mins
	Feline panleukopenia virus antigen Rapid Test Kit	Anal swab	Moderate amount	7mins
Disease of Feline/Canine	Feline Coronavirus antigen Rapid Test Kit	Anal swab	Moderate amount	7mins
	Feline Herpesvirus antigen Rapid Test Kit	Eye, mouth and nose secretions	Moderate amount	7mins
	Feline Calicivirus antigen Rapid Test Kit	Eye, mouth and nose secretions	Moderate amount	7mins
	Canine parvovirus antigen Rapid Test Kit	Anal swab	Moderate amount	7mins
	Canine Distempervirus antigen Rapid Test Kit	Eye, mouth and nose secretions	Moderate amount	10mins
	Canine heartworm antigen Rapid Test Kit	Plasma or serum	20 μ L	7mins
	Canine parvovirus/ Coronavirus antigen 2 in1 Rapid Test Kit	Anal swab	Moderate amount	10mins
Hormones	cTSH Rapid Test Kit	Plasma or serum	100 μ L	10mins
	Canine Progesterone Rapid Test Kit	Plasma or serum	50 μ L	10mins
Disease of Heart	Canine NT-proBNP Rapid Test Kit	Plasma or serum	100 μ L	10mins
	Feline NT-proBNP Rapid Test Kit	Plasma or serum	100 μ L	10mins
Renal function	Cystatin C Rapid Test Kit	Plasma or serum	100 μ L	10mins



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.



Blood Gas & Electrolyte Parameters

Measured parameters



pH	Crea	K ⁺
pCO ₂	Hct	Lac
pO ₂	BUN	Cl ⁻
Na ⁺	Glu	Ca ⁺⁺

Calculated parameters

TCO ₂ [*]	cHgb [*]
cHCO ₃ ^{-*}	BE(ecf) [*]
Be(b) [*]	cSO ₂ [*]
AG [*]	

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