

# IVD - Microbial Identification Systems

## In Vitro Diagnostics



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

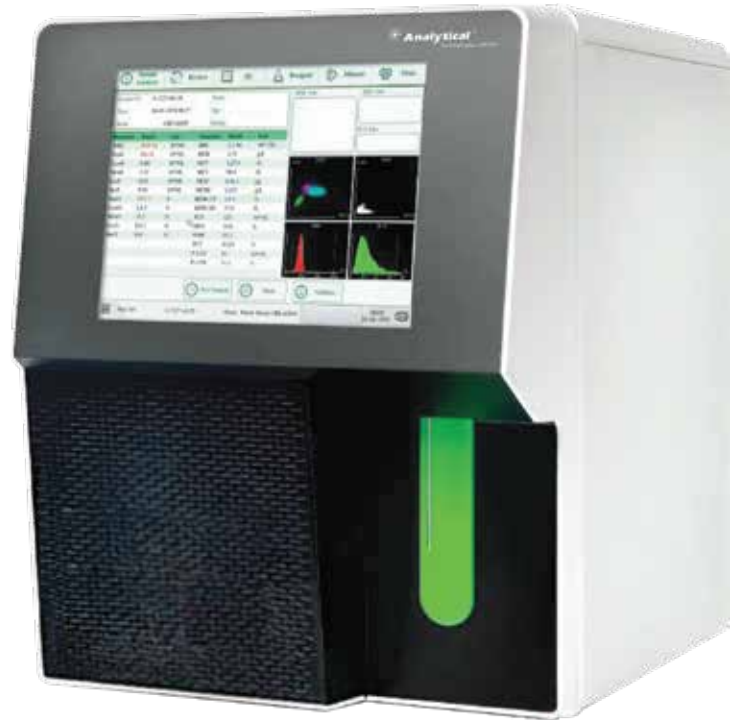
**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

# HEMATOLOGY

- HEMA-3661 5-Part Auto Hema Analyzer
- HEMA-3063, HEMA-3064 3-Part Auto Hema Analyzer
- CA-3051/3052/3054 Coagulation Analyzer



## ▶▶ Compact yet powerful ideal to be your first 5-part

HEMA-6610 is an innovative, economic. compact hematology analyzer using advanced tri-angle laser scattering, flow cytometry technology to deliver cost-efficient 5-part white blood cell differential results. It costs only 3 reagents for 1 test, which the result includes 29 parameters, 4 scattergrams and 2 histograms.

No extra PC required, 10.4-inch touch screen instead, along with built in thermal printer, built in barcode scanner, reagent room, it is a perfect hema solution for small to medium labs and clinics, which have limited space and budget, but request accurate hematologic results. Furthermore, it is potential to replace the position of 3-part in the near future medical marketing.

## ▶▶ Product Features

Throughput	60 tests/hr
Principle	Tri-angle laser scattering, flow cytometry for WBC differentiation and counting Impedance for RBS & PLT counting Colorimetric method for HGB
Communication	Support LIS, HL7 Protocol
Blockage Clear	High voltage, High pressure flush
Storage	60,000

## HEMA-3064



## HEMA-3063



HEMA-3064 is a classic hematology analyzer with large touch screen, built in thermal printer and huge storage capacity. It is a diagnostic system combined with reliable hardware and intuitive software, which is a perfect solution for small labs and clinics.

HEMA-3063 is another economic choice, we deeply understand the thoughts of small or medium lab including limited budget, small space of lab, shortage of technician, etc.

### ►► Product Features

Throughput	60 tests/hr
Principle	Impedance for cell counting Colorimetric method for HGB
Items	20 parameters, 30 histograms
Blockage Clear	High voltage, High pressure flush
Storage	100,000 results with histograms

### ►► Model difference

Model	HEMA3063	HEMA3064
Display	8-touch screen	10.4 touch screen
Input	2-USB Port	4-USB Port
Dimensions(D*W*H)	410mm*435mm*472mm	514mm*594mm*645mm
Weight	21kg	24.7kg
CV	WBC ≤2.0% RBC ≤1.9% HGB ≤1.9% MCV ≤0.4% PLT ≤4.0%	WBC ≤2.0% RBC ≤1.5% HGB ≤1.5% MCV ≤0.4% PLT ≤4.0%

## ►► Reagents for HEMA-3661

## Reagents for HEMA-3064&3063

Product	Specification
Dil Diluent	20L
DIFF Lyse	500ml
LH Lyse	100ml
Probe Cleanser	50ml

Product	Specification
Dil Diluent	20L
Lyse	500ml
E-Z Cleanser	50ml
Probe Cleanser	50ml

## CA-3051



## CA-3054



## CA-3052



CA series are semi-auto coagulation analyzers with 1, 2 or 4 independent working channels. Small volume of sample and reagent is needed for tests to save cost. which can meet the requirement of small labs or clinics.

## ►► Product features

Parameters	PT, APTT, TT, FIB, etc.
Principle	Clotting, optical method
Wavelength	LED 470nm
Sample type	Plasma
Memory	10,000 results storage
Sample volume	20-40μL
Reagent Volume	20-40μL



## ►► Model difference

Model	CA3051	CA3052	CA3054
Testing Channel	1	2	4
Display	4.3-inch screen	5-inch screen	5-inch screen
Cuvette incubation positions	5	12	24
Reagent incubation positions	2	5	6
Net weight	2.1kg	4.5kg	5.2kg

## CHEMISTRY

- NOVA-3480 Auto Chemistry Analyzer
- NOVA-3300 Plus Auto Chemistry Analyzer
- NOVA-3200 Auto Chemistry Analyzer
- NOVA3321 Semi-auto Chemistry Analyzer
- NOVAlyte 3200/3300 Electrolyte Analyzer
- NOVAlyte3500 Electrolyte Analyzer
- UriNOVA3600 Urine Analyzer

### NOVA-3480

NOVA3480 is a high performance analyzer with constant throughput 400 tests per hour. It is an ideal instrument for medium sized laboratories which is one of the most popular models for global market. With its sophisticated design and user-friendly system, the NOVA3480 offers you a precise, reliable and comfortable testing experience.

## ►► Product features

- Random access. STAT with constant 400 test per hour
- Maintenance-free grating photometer with 13 wavelengths
- Enhanced liquid system with 9-step washing
- Random access. STAT with constant 400 test per hour
- 90 reagent positions, 105 sample positions
- Intuitive and powerful software
- Bilateral LIS transmission



## NOVA-3300

NOVA-3300 Plus is an enhanced auto chemistry analyzer, a flexible chemistry solution for small to medium labs. It is a new benchtop chemistry analyzer which is more compact and high efficient

### ►► Product features

- Random access, fully automated, STAT
- Up to 240 tests per hour
- Large capacity up to 60 sample positions and 60 reagent positions.
- Intuitive and powerful software featuring one key parameter import and backup
- Sample & reagent carryover setup
- Powerful statistics including price, cost and workload
- Wash system : Optional
- Sample barcode scanner : Optional



## NOVA-3200

NOVA3200 is the classic model for chemistry assays. It has come to market for several years, and it is proved to be a great success. The compact benchtop and robust functionality will allow you to enjoy an easy and convenient operation.

### ►► Product features

- Fully automated. random access, open system
- Throughput: up to 150 test/hr
- 8 wavelengths from 340-670nm, precision  $\pm 2\text{nm}$ .
- 40 reagent positions and 40 sample positions
- Full-sealed matrix spectrometric system
- Barcode scanner and internal PC optional
- Wash system : Optional



## ►► Model Difference

Model	NOVA3200	NOVA3300 Plus	NOVA3480
Throughput	Up to 150 tests/hr	Upto to 240 tests/hr	Constant 400 tests/hr
Type	Benchtop	Benchtop	Floor standing
Reagent position	40	60	90
Sample positions	40	60	105
Reaction postion	50	81	120
Photometer	Filter	Filter	Grating
Collision protection	Yes	Yes	Yes
Liquid level detection	Yes	Yes	Yes
Wash station	Optional	Optional	Yes
Barcode	Optional	Optional	Yes
Connection	RS232	Ethernet RJ45	Ethernet RJ45
Dimension (W*D*H)	720*450*550mm	875*660*570mm	1100*810*1120mm

## NOVA-3021 A/B

NOVA3021 series are classic and robust semi-auto chemistry analyzers with open system. It is quite popular among small size laboratories. It is compact, easy to operate and requires low maintainance.

### ►► Product features

- High performance with accurate optical source and robust hardware.
- Reaction curve real time display
- Built-in thermal printer, auto & manual print
- Support LIS and barcode scanner
- Flowcell & cuvette modes



### ►► Model difference

Model	NOVA3021A	3021B
Wavelength	340nm, 380nm, 405nm, 505nm, 546nm, 578nm, 620nm, and one free position	340nm, 405nm, 505nm, 546nm, 578nm, 620nm, and two free position
Operations	Touch screen and keypad	Keypad

## ►► Chemistry Reagents

### Hepatic Panel :

Alanine Aminotransferase (ALT)  
 Aspartate Aminotransferase (AST)  
 Alkaline Phosphatase (ALP)  
 γ-Glutamyl Transferase (GGT)  
 Albumin (ALB)  
 Total protein (TP)  
 Prealbumin (PA)  
 Cholinesterase (CHE)  
 Total Bile Acids (TBA)  
 Direct Bilirubin (D-BIL)  
 Total Bilirubin (T-BIL)  
 Cholyglycine (CG)  
 5'-Nucleotidase (5'-NT)  
 Adenosine Deaminase (ADA)

### Lipid Panel :

Total Cholesterol (CHOL)  
 HDL-Cholesterol (HD-C)  
 LDL-Cholesterol (LDL-C)  
 Apolipoprotein A1 (Apo-A1)  
 Apolipoprotein B (Apo-B)  
 Triglycerides (TG)  
 Lipoprotein (a) (Lpa)  
 Non-esterified Fatty Acid (NEFA)

### Immune Panel :

Complement C3 (C3)  
 Complement C4 (C4)  
 Immunoglobulin A (IgA)  
 Immunoglobulin G (IgG)  
 Immunoglobulin M (IgM)

### Cardiac Panel :

Creatine Kinase (CK)  
 Creatine Kinase-M (CK-MB)  
 Homocysteine (HCY)  
 α-Hydroxybutyrate Dehydrogenase (α-HBDH)  
 Lactate Dehydrogenase (LDH)  
 High Sensitivity C-reaction Protein (HS-CRP)  
 D-Dimer  
 Fibrinogen degradation product(FDP)

### Diabetes Panel :

Glucose- Oxidase Method (GLU-OX)  
 Glucose- HK Method (GLU - Hexokinase)  
 Glycated Albumin (GA)

### Pancreatitis Panel

α - Amylase (α-AMY)

### Renal Panel :

Creatinine-Picric acid method  
 Creatinine Sarcosine Oxidase Method  
 Urea (UREA)  
 Uric acid(UA)  
 Cystatin C (Cys-C)  
 β2-Microglobulin (β2-MG)  
 Retinol Binding Protein (RBP)  
 Carbon dioxide (CO2)  
 Neutrophil gelatinase-associated lipocalin(NGAL)  
 Micro Albumin (mALB)

### Gastric Panel :

Pepsinogen I (PGI)  
 Pepsinogen II (PGI)

### Inflammation :

Serum amyloid protein A(SAA)  
 Sialic Acid (SA)

Rheumatoid Factor (RF)  
 Antistreptolysin "O" (ASO)  
 Anti - cyclic Citrullinated  
 Peptide Antibody (CCP)

### Anemia / Iron Metabolism :

Fe  
 Pepsinogen II (TRF)

### Other

Superoxide Dismutase (SOD)



## NOVAlyte-3200



## NOVAlyte-3300



This easy-to-use Electrolyte analyzer not only has a high efficiency with 60 samples per hour, but also equipped with humanized software. The large touch screen, the user-friendly interface and simple operation will give you a pleasant testing experience.

### ►► Product features

- Close system, self-developed reagent perfectly matching analyzer
- Real-time display reagent volume
- L-J graph for QC management, auto calculate SD, CV
- Large memory capability
- Simple liquid path, easy access for routine maintenance and troubleshooting

### ►► Flexible Item Combination

#### NOVAlyte3200

- \* K<sup>+</sup>, Na<sup>+</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>, TCa, pH
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Li<sup>+</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>

#### NOVAlyte3300

- \* K<sup>+</sup>, Na<sup>+</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>, TCa, pH
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, Li<sup>+</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>
- \* K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>, iCa<sup>2+</sup>, pH, TCa, TCO<sub>2</sub>, AG, KT

### ►► Electrolyte Reagents

- \* DS-I(NO.3) Standard A Standard B (390/160mL) for GE 3300
- \* DS-I(NO.2) Standard A Standard B (390/160mL) for GE 3200
- \* 3-level QC (10ml\*3)

### ►► Maintenance Reagents

- \* Cleaning Solution (250mL)
- \* PVC Electrode Activating Solution (50mL)
- \* DS-Ref Ref. Filling Solution (10mL)
- \* Deprotein Solution  
(R1: Diluent 20mL/bottle\*1; R2: Protease powder 100mg/bottle\*6)

## ►► Model Difference

Model	NOVAlyte3200	NOVAlyte3300
Throughput	60tests/hr	60tests/hr
Operation	5-inch touch screen	5.6-inch touch screen
Connection	LIS	LIS,Barcode Scanner
Display	LED monochrome touch screen	LCD coloury touch screen

## NOVAlyte-3300

This enhanced Electrolyte analyzer not only has a high efficiency with 100 samples per hour, but also equipped with auto sampler. The simple operation and high performance will give you a pleasant testing experience.

### ►► Product features

- Sample type : Whole blood, serum, plasma, urine(diluted)
- 7-inch color touch screen
- Close system, All-in-one solution pack with long shelf-life
- Auto cleaning for probe interior and exterior
- Liquid level detection
- Auto loader with 32 positions

### ►► Various Item Combination

$K^+$ ,  $Na^+$   
 $K^+$ ,  $Na^+$ ,  $Cl^-$   
 $K^+$ ,  $Na^+$ ,  $iCa^{2+}$   
 $K^+$ ,  $Na^+$ ,  $Cl^-$ ,  $Li^+$   
 $K^+$ ,  $Na^+$ ,  $Cl^-$ ,  $iCa^{2+}$   
 $K^+$ ,  $Na^+$ ,  $Cl^-$ ,  $iCa^{2+}$ , pH  
 $K^+$ ,  $Na^+$ ,  $Cl^-$ ,  $iCa^{2+}$ ,  $Li^+$ ,  $Mg^{2+}$ , pH



## UriNOVA-3600

UriNOVA3600 is a compact semi-auto Urine analyzer with touch screen, user-friendly software. Built-in thermal printer allows user to print results automatically.



## ►► Product features

Principle	Dual wavelength reflectance method
Parameters	Glucose, Bilirubin, Ketone, Specific Gravity, Blood, pH, Protien Urboilinogen, Nitrite, Leukocyte, Vitamin C
Sample type	Urine
Test mode	Auto, Manual

## ►► Model difference

Model	UriNOVA3600
Throughput	100tests/hr
Wavelength	520nm, 640nm, 660nm
Display	5-inch touch screen
Memory	10,000 results storage
Dimensions	360mm x 225mm x 160mm
Net weight	2.5kg

# Specific Protein

- PA3120 Fully auto Specific Protien Analyzer
- PA3050/3054 Specific Protien Analyzer

## PA3120

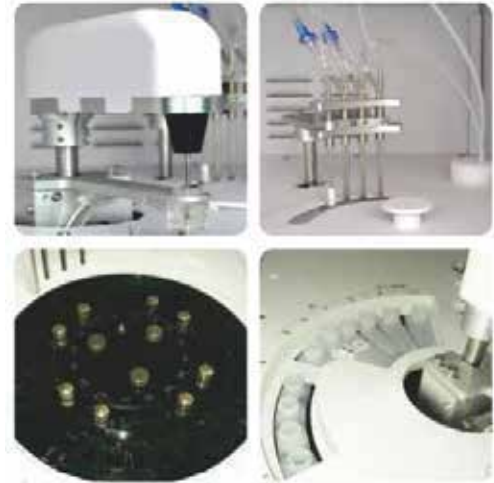
PA3120 is a fully auto specific protein analyzer with high efficiency and accuracy. More than 3000 analyzers have been installed since it first came to domestic market 3 years ago, which is proven to be a great success. The large touch screen one-press operation and multi-item combinations will offer you a quick and convenient testing experience.



## ►► Product features

- H.U.M.A.N. Solution
  - High-Efficiency & Sensitivity
  - User friendly software & UI
  - Modular Design
  - Accurate
  - Nephelometry
- Up to 60 tests/hour
- FDA certified (analyzer only)
- One click, multi results
- Comprehensive test menu

## Reliable Hardware



## ►► One - press operation



## Powerful Software

Measure						
Review						
QC						
Reagent						
Service						
Print						
ID:	16	Next ID:	0	Reagent:	hs-CRP	hs-CRP Lot No.: 20170801
Name:		Outboard Test:	0	Coil:	0	Remaining Test: 9999
ID	Test	Result	Reference	Unit	Test Range	Test Time
16	hs-CRP	10.000	0.42	mg/L	0.500 - 10.000	11:20:19
15	hs-CRP	10.000	0.40	mg/L	0.500 - 10.000	11:19:19
14	hs-CRP	23.1101	0.62	mg/L	0.500 - 10.000	11:18:19
13	hs-CRP	10.000	0.79	mg/L	0.500 - 10.000	11:17:19
12	hs-CRP	10.000	0.46	mg/L	0.500 - 10.000	11:16:19
11	hs-CRP	10.000	0.25	mg/L	0.500 - 10.000	11:15:19
10	hs-CRP	12.9701	0.10	mg/L	0.500 - 10.000	11:14:19
9	hs-CRP	6.200	0.41	mg/L	0.500 - 10.000	11:13:19
8	hs-CRP	10.000	0.06	mg/L	0.500 - 10.000	11:12:19
7	hs-CRP	0.000	0.05	mg/L	0.500 - 10.000	11:11:19
Next Sample						
Read Card						
Set Item						
Sample Type: Serum						
2017-09-10 11:14:19						

## PA3050



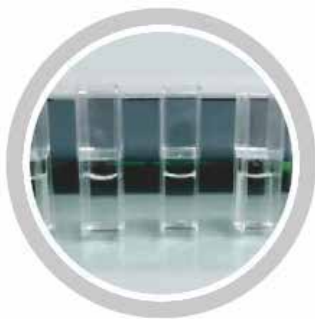
PA series are semi auto analyzers for quantitative determination of specific proteins in blood and urine. It's an ideal instrument designed for small to medium sized labs.



## ►► Product features

- FDA certified (analyzers only)
- 5.6 inch coloured touch screen
- Calibration by magnetic card to increase efficiency and avoid extra cost
- Built in thermal printer to support auto & manual printing
- Support LIS and barcode scanner
- Comprehensive test menu

## ►► Test Procedure



**Step 1**



**Step 2**



**Step 3**

## ►► Model Difference

Model	PA3050	PA3054	PA3120
Type	Semi-auto	Semi-auto	Fully-auto
Throughput	/	/	60tests/hr
Test channel	1	4	32
Operation	5.6 inch touch screen	5.6 inch touch screen	10.1 inch touch screen

## ►► Reagents

Applications	Item	Sample type
Diabetes monitoring	HbA1c	whole blood
Inflammation, bacterial infection	CRP SAA	whole blood/plasma/serum, whole blood/plasma/serum
Clotting monitoring	D-Dimer FDP	plasma, plasma
Renal function	mALB b2-MG RBP	urine, serum/urine, serum
Renal injury	Cys-C NGAL	serum/plasma, plasma
Rheumatoid monitoring	ASO RF CCP	serum/plasma, serum/plasma, serum
Immunological disease	IgA/IgM/IgG/IgE*/C3/C4	serum/plasma
Gastric function	PGI/PGII	serum
Cardiovascular disease	hs-CRP Lp-PLA2*	whole blood/plasma/serum, serum/plasma

# POCT

## Point of care testing

### ➤ FA3050 Quantitative Immunofluorescence Analyzer

## FA-3050

FA3050 is a sample, innovated and accurate point-of-care testing analyzer that certified by FDA. It is integrated with smart and calibration technology and capable to perform tests over different sample types including whole blood, serum and plasma. It's base on immunofluorescence and provides reliable and quantitative results in minutes. The FA3050 analyzing system is applicable in clinics and doctors' offices, as well as different hospital departments including A&E, ICU, CCU, pediatric, etc.



### ▶▶ Product features

Principle	immunofluorescence quantitative
Incubation time	3-15 min
Measurement time	10 sec
Sample type	Whole blood, serum, plasma
Calibration	Magnetic card
Memory	50,000 results
Input	5.6-inch touch screen
Output	Internal thermal printer Support LIS and barcode scanner

### ▶▶ Applications

Item	Applications	Item	Applications
PCT	Inflammation	T3*	Thyroid Malfunction
hs-CRP	Inflammation	T4*	Thyroid Malfunction
NT-proBNP	Heart Failure	TSH*	Thyroid Malfunction
cTnI	Myocardial Infarction	LH*	Fertility
Myo	Myocardial Infarction	FSH*	Fertility
CK-MB	Myocardial Infarction	PRL*	Fertility
cTnI/CK-MB/Myo	Myocardial Infarction	PROG*	Fertility
D-Dimer	Coagulation	β-HCG*	Fertility
HbA1c	Diabetes	TESTO*	Sexual Disorder

# Veterinary

- HEMA-3661 VET / HEMA-3640 VET / HEMA-3620 VET
- NOVAlyte3300 VET / CA3052 VET / UriNOVA3600 VET

## Product features

- Easy operation : no special skills required
- Portable : great mobility
- Good performance : proved microfluidic
- Powerful test platform : comprehensive items, support item expansion, disposable panels, 9 wavelengths (340~800nm)



## Easy Operation

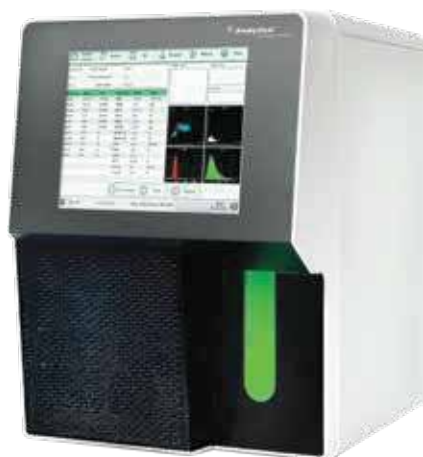


## Applications

Item	Applications
General	ALB, ALP, ALT, AMY, AST, Ca <sup>2+</sup> , CK, CREA, GLU, K <sup>+</sup> , NA <sup>+</sup> , P, T-BIL, TC, TP, UREA, GLOB, ALB/GLOB, UREA/CREA, Na <sup>+</sup> /K <sup>+</sup>
Preoperative	ALP, ALT, AST, CK, CREA, GLU, TP, UREA, UREA/CREA, Na <sup>+</sup> /K <sup>+</sup>
Renal	ALB, Ca <sup>2+</sup> , Cl <sup>-</sup> , CO <sub>2</sub> , CREA, GLU, K <sup>+</sup> , P, UA, UREA, GLOB, ALB/GLOB
Liver	ALB, ALP, ALT, AMY, AST, GGT, TBA, T-BIL, TP, UREA
Electrolyte	Ca <sup>+</sup> , Cl <sup>-</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , P
Critical Care	ALT, AMY, CK, Cl <sup>-</sup> , CO <sub>2</sub> , CREA, GLU, K <sup>+</sup> , UREA
Equine	ALB, AST, Ca <sup>2+</sup> , CK, CO <sub>2</sub> , CREA, GGT, GLU, K <sup>+</sup> , LDH, T-BIL, TP, UREA



### HEMA3661



Throughput	60 tests per hour
Principle	Tri-angle laser scattering, Flow cytometry, impedance, Colorimetry
Parameter	5-diff, 25parameters +4 scattergrams + 2 histograms
Sample volume	20ul
Species	Cat, Dog, Rabbit

### HEMA3064



Throughput	60 tests per hour
Principle	Impedance, Colorimeter
Parameter	3-diff, 20 parameters + 3 histograms
Sample volume	10ul
Species	Canine, Browine, Feline, Ovine, Equine, Simian

### HEMA3062



Throughput	35 tests per hour
Principle	Impedance, Colorimeter
Parameter	3-diff, 20 parameters + 3 histograms
Sample volume	10ul
Species	Canine, Browine, Feline, Ovine, Equine, Simian





### NOVAlyte3300 VET

Principle	Ion selective electrode
Species	Porcine, Feline, Canine, Bovine, etc
Input	Touch screen
Throughput	60tests/hr
Parameter	K+, Na+, Cl-, iCa <sup>2+</sup> , pH, Li+, TCO <sub>2</sub> Module



### CA3052 VET

Channels	2 channels
Parameter	PT, APTT, TT, FIB, etc
Principle	Clothing, optical method
Sample volume	20-40μL



### UriNOVA3600 VET

Throughput	100tests/hr
Input	5-inch touch screen
Principle	Reflectance photometry

## ►► Regulatory compliances



## ►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



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## ►► Reach us @



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