

Specialist Automation

Immunoassay
Biochemistry
Coagulation



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Specialist immunoassay

As research uncovers new clinical applications, specialist manual assays are reaching the volumes that require automation. This increased demand can sometimes be to the detriment of performance in terms of precision, sensitivity and clinical application. The solution...

...is a system from a company with a proven track record of producing award winning immunoassay technology and who now are bringing these qualities and skills to automation. The key focus is to achieve "higher" throughput without compromising assay quality.

This system is for your esoteric analytes that are increasing in numbers but where no single alternative meets the needs of the laboratory in terms of throughput, reliability and performance.

Our key fundamental objective is to bring these specialist assays to you on a platform that offers a clear advantage to the user in terms of availability, performance, quality and throughput.



Test Name	Value
GLUCOSE	88
UREA	8
CREATININE	0.7
EF (NON-AFRICAN AMER.)	>60
EF (AFRICAN AMER.)	>60
SODIUM	142
POTASSIUM	3.7
CHLORIDE	98
BICARBONATE	29
CALCIUM	9.4
BILIRUBIN, TOT	0.9
TOTAL PROTEIN	7.1
ALBUMIN	4.1
AST (SGOT)	13
ALT (SGPT)	16
ALKALINE PHOS	41
DIFF. BLOOD	

Flexibility in mind – Combining technologies

Laboratories are facing increasing pressure to maintain clinical performance and workflow whilst always improving operational and cost outcomes. IDS understands these constraints and has designed a system to optimise workflow by testing for a complete clinical profile without the need to split samples.

As well as specialist immunoassay technology, the IDS-iSYS also features:

Biochemistry

Demand for Biochemistry has created numerous different systems to meet every size of laboratory. The IDS-iSYS also features this technology not to compete with high throughput Biochemistry analysers, but to simply offer you the flexibility to run your commonly requested clinical chemistry analytes at the same time as your specialist endocrine samples.

Coagulation

Coagulation continues to advance into a multi-discipline branch of diagnostics. Diseases and conditions have now crossed departmental boundaries, with all laboratory disciplines being involved to produce an accurate diagnosis. The IDS-iSYS has been developed to accommodate panels of specialist coagulation tests utilising the latest system technologies and techniques to advance assay quality and performance. These assays will run alongside the Immunology and Biochemistry product ranges, to help establish a full clinical assessment.

Specifications

Whether your requirement is to automate a single parameter increasing in volume or combining all your specialist testing onto one system, the IDS-iSYS is designed for your workload and needs.

The system has everything you command from a clinical analyser in a small, bench-top design integrating 3 proven technologies to accommodate all your specialist analyte requirements.

High-performance assays require a high performance platform, the IDS-iSYS delivers both to your laboratory.

Software

Intuitive and secure

- Full traceability of samples and reagents
- Remote maintenance connection
- Online update (technical information and software) available
- QC and consumable management

Easy to Use

Continuous loading with positive ID

- Refrigerated reagents
- Up to 15 different immunoassays
- Up to 90 biochemistry reagents
- Up to 6 coagulation tests
- 64 positions for samples, controls or calibrators
- STAT function
- 2-point calibration
- On-board dilution
- Random access or batch mode

Walk Away Capability

- 960 cuvettes on board
- Automatic cuvette loader
- Ancillary reagents on board



Single Cuvette Test

- Automatic loading of the cuvettes
- One cuvette per test offering no cross contamination, and simple traceability
- Incubation (at 37°C) and transportation via carousel (90 positions)

Asynchronous Management

- Each cuvette processed independently
- Modular configuration optimises throughput and allows continuous access

Modular Reaction Carousel

Specific measurement module for each discipline

- Immunology:
 - Luminometer
- Biochemistry:
 - Spectrophotometer
- Coagulation:
 - Chronometry module

A Unique Analytical Platform

- Performs a complete analytical panel by running immunology, biochemistry and coagulation at the same time
- Manages workload for optimal throughput

Performance

Maximum Throughput*

- Immunology
60 - 120 tests/hour
- Biochemistry + ISE
360 tests/hour
- Coagulation
60 - 120 tests/hour

*Assay dependent



Specifications

System

Multi-discipline Immunology, Biochemistry and Coagulation analyser

- Immunology and Biochemistry (4 washers)
- Immunology and Biochemistry + (2 washers) + Coagulation (2 chronometric modules)
- Biochemistry + Coagulation (2 or 4 chronometric modules)

Maximum throughput

According to configuration

- Immunology
60 - 120 tests/hour
- Biochemistry
360 tests/hour
- Coagulation
60 - 120 tests/hour

Samples

Serum or urine

Primary tubes 5mL (13x75 mm), 7mL (13x100 mm), 10mL (16x100 mm)

Secondary tubes (13 x 75 mm)

Paediatric tubes

500 μ L and 1.5mL cups

64 positions for samples, calibrators and controls

Liquid level detection by capacitance

Clot detection

On-board dilution and pre-treatment

Barcode readers/types

Barcode reader for reagents and ancillaries

Barcode reader for samples

Barcode types: Codes: 2/5, EAN/UPC, Code 39, Code 128 and Codabar

Reagent compartment

15 rails which can hold:

Up to 15 different immunoassays

Up to 90 biochemistry reagents

Up to 6 coagulation tests

STAT function

Storage at 12-15°C while operating

Internal onboard storage between 8 and 10 °C in standby mode

Sample volume (μ L)

Immunology: 5 to 150 μ L

Biochemistry: 4 to 50 μ L

Coagulation: 5 to 150 μ L

Sampling system

Single pipetting arm for sample/reagents

Probe cleaning between samples/reagent pipetting

Spectrophotometer

Spectrophotometer with interferential filters

6 wavelengths available: 340, 405, 500, 540, 580 and 620 nm

Halogen lamp. Transmission by optic fibre

Linearity: Up to 3 OD

Optic path of cuvettes: 0.7 cm



Luminometer

Wavelengths: from 300 to 500 nm
Linearity: Up to 10 Million Rlu

Chromometer

Optic detection of clot
Bichromatism

Selective electrodes module (ISE)

Determination of Sodium, Potassium, Chloride
Direct potentiometry on serum
Indirect potentiometry on urine

Carousel

Incubation at 37°C
90 positions for disposable cuvettes
Automatic cuvette loading

Cuvette loader

Heated cuvette loader.

Waste collection

10 litre container holding liquid waste posing a biological risk
Solid waste (cuvettes) disposed of in disposable container

Power supply

Voltage: 110 - 220 V
Frequency: 50 - 60 Hertz
Maximum power consumed: 1000 VA

Dimensions

Analyser: L 105 x H 70 X W 75 cm
Weight: 75 kg
Computer: L 60 x H 40 X W 50 cm

Informatics

Connection to centralised computer:
bidirectional connection (ASTM protocol)

Computer system – minimum configuration required

Operating system:
WINDOWS XP Pro Service Pack 2

Microprocessor:
AMD™ Sempron 3100 or equivalent

Live memory: 1Gb

Hard disk: 80 Gb

Ethernet: 2 independent Ethernet
network adaptors

Ports: 2 USB ports
Serial port for connection to LIS

Keyboard: AZERTY or QWERTY Mouse

Screen: 17 inch monitor
Screen resolution 1024 x 768 pixels

Peripherals Reader: CD burner



Specialist assay menu

High quality, clinically validated assays are key to improving healthcare efficiency and patient care. IDS are collaborating with opinion leaders world-wide to expand the menu currently in development, with next generation, highly specific disease markers.

Immunology

Calcitropic Hormones

25-Hydroxy Vitamin D
Intact PTH
Bioactive PTH (1-84)
1,25-Dihydroxy Vitamin D

Bone Turnover

BAP
Intact PINP
CTX-I (CrossLaps®)
N-MID™ Osteocalcin
TRACP 5b

Growth Disorders

hGH
IGF-I
IGF-BP3

Hypertension

Renin
Aldosterone

Adrenal/Pituitary

ACTH
Cortisol

Diabetes

C-peptide
Insulin

Biochemistry

Albumin
ALP
APO A1-APO B
Amylase
Bilirubin Total/Direct
Calcium OCP
Chloride (ISE)
Cholesterol
Cholesterol HDL Direct
CK
Creatinine
CRP Latex
Gamma-GT
Glucose
GOT/ASAT
GPT/ALAT
Iron
LDH
Magnesium
Phosphorus
Potassium (ISE)
Protein Total & Urine
Sodium (ISE)
Triglycerides
Urea
Uric Acid

Coagulation

PT, INR
aPTT
Fibrinogen
TT
Factors
D-Dimer
HIT (heparin induced thrombopenia)
AT III
Heparins



Service and support

Service and support is as important to a laboratory as the results they deliver.

IDS understands this and has a service infrastructure in place to deliver peace of mind to your lab. With a help-line and next day on-site assistance, IDS is always on-hand to support you every step of the way.





Technical Support

The specialists in our technical support department are available to advise and support you if you have any questions concerning the application and functionality of the system. These services include:

- A personal contact to assist you through the technical support process
- Fast and competent assistance to your questions
- Frontline telephone support for all hardware/software configuration queries
- Remote dial-in to rapidly assist in system diagnostics
- Application training

Field Service

With a global network of field engineers, there is always someone on hand to visit and assist you in your laboratory. With customised service contracts to suit every clients needs, you can be sure of:

- Next day, on-site assistance
- Support and on-site advice for optimal use of the system
- Preventative maintenance to ensure the on-going reporting of results



Contact your local IDS office for further details on this unique laboratory solution or contact IDS UK to be put in touch with your local distributor.

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