

ids *isys*

Specialty Immunoassay Automation

IDS - ISYS Multi-discipline Automated System



Assay and Instrument Expertise

All Under One Roof

Since 1947, Immunodiagnostic Systems (IDS) has been dedicated to the development and provision of innovative immunoassays and automated immunoanalyser technologies for use in clinical and research laboratories.

As a leading specialist diagnostic company, our mission is to provide improved outcomes for patients in our selected fields of speciality by delivering innovative and effective assays and instruments of the highest quality.

Our Current Endocrinology Clinical Areas



Bone Metabolism

Throughout life, old bone is constantly removed (resorption) and replaced by new bone (formation). This continual process is essential for the maintenance of healthy bone mass and micro-architecture. The IDS complete bone offering provides the tools for research and routine clinical laboratories, to provide highly accurate and reliable results.



Calcium Metabolism

Vitamin D deficiency results in abnormalities in calcium, phosphorus, and bone metabolism and affects one billion people worldwide across all ethnicities and age groups.¹ Our comprehensive calcium metabolism panel enables laboratories to measure Vitamin D deficiencies in line with the Clinical Practice Guidelines set by the Endocrine Society.²



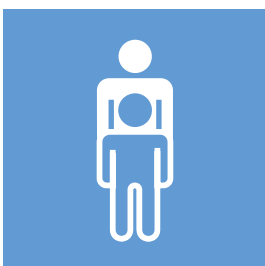
Hypertension

Is a chronic medical condition in which blood pressure in arteries is elevated. Hypertension is a major risk factor for strokes, heart attack, aortic aneurysm, and is a cause of chronic kidney disease. The IDS fully-automated hypertension panel provides laboratories with simple and fast quantitative results.



Chronic Kidney Disease Mineral Bone Disorder

Is a systemic disorder of mineral and bone metabolism due to Chronic Kidney Disease. Building on our expertise in calcium and bone testing, IDS provides a CKD-MBD panel which comprises of bone and calcium metabolism markers including; Bone Specific Alkaline Phosphate, PTH and 25(OH)D.



Growth

There are two main types of growth disorders; excessive growth and growth-hormone deficiency. The IDS Growth panel can be used to identify these diseases and conditions, evaluate pituitary function and monitor the effectiveness of growth hormone (GH) treatment.

1. Holick MF., "Vitamin D deficiency". N. Engl. J. Med. (2007) 357 (3): 266–81.
2. Holick, MF., et al. "Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline." The Journal of Clinical Endocrinology & Metabolism 96.7 (2011): 1911-1930.

The IDS-iSYS:

A Unique Efficiency

The IDS-iSYS is an unique instrument based on Chemiluminescence and Absorbency technology. As a fully-automated solution the IDS-iSYS provides quality and efficiency throughout the complete testing process.

Efficiency

- A total instrument solution based on simplicity and reliability
- Fully walk-away automation
- Compact, bench-top design
- Continuous loading with batch, random, and STAT flexibility
- Easy operation with auto start-up and shut-down
- On-board refrigeration of ready-to-use reagent cartridges

Quality

- A long heritage of instrument production
- Excellent correlation with gold-standard assays
- Independent test cuvette processing
- Clot system to prevent measurement interruption
- Decontamination concept, preventing sample carry-over
- Samples, reagents and consumables traceability

...Commitment to innovation



Concept



The IDS-iSYS:

Automation to Enhance Performance and Productivity



Reagent Module

- Ready-to-use barcoded reagent cartridges
- Holds up to 15 different immunoassay cartridges
- On-board controlled stable temperature (12-15 C)
- Continuous loading and unloading



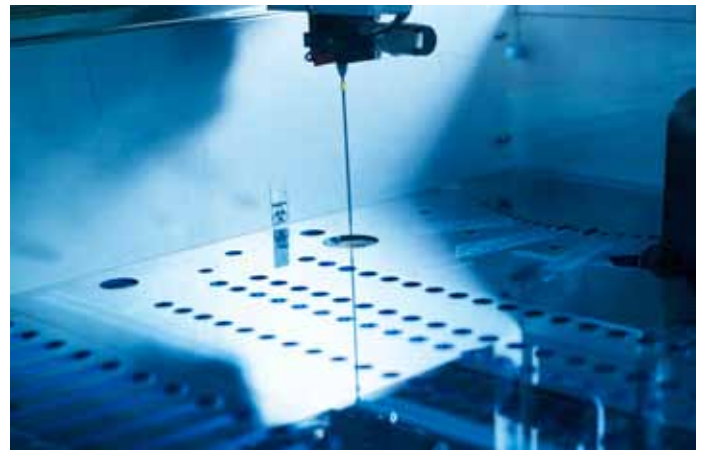
Sample Loader

- Up to 120 samples (6 racks of 20 samples each)
- Supports multiple tube sizes
- Paediatric micro-tubes capability



Assay Processing Module

- Individual cuvette
- Acridinium ester, magnetic particle chemiluminescence detection
- Enzyme activity measurement capability (Spectrophotometer with LED technology)
- Two points calibrators with stored master curve
- Enhanced throughput with 4 independent washers



Sample Handling

- Liquid level sensing & iCM technology
- Decontamination concept prevents sample carry-over
- Wide range of sample volumes
- Sample mixed in cuvette
- On-board sample pre-treatment

Design Innovations

Enhancing Performance and Productivity

1

The IDS-iSYS Intelligent clot management “iCM” is a robust concept to prevent measurement interruption and enhance your productivity via maximised hands on time.

- Detect clot down to 4µL of sample volume, ideal for paediatric samples
- Real time detection. All pipetting and dispensing volumes are checked (sample cuvette, reagent, rinsing)
- Managed by intelligent software, notifies the operator, trace and flag sample result
- No extra maintenance

2

The IDS-iSYS active carry over prevention management is an effective decontamination concept without extra maintenance. Included is a unique High Pressure Rinsing and a dedicated cleaning solution.

- High pressure rinsing: 4-5 bars pulse rinsing into the rinsing well
- Optimised rinsing speed for liquid interaction and rinsing
- Automatic maintenance management (needle and washers)
- Step wise aspiration (optimised liquid interaction)

3

The easy handling is based on a real walk-away system and continuous loading. Immediate random access for samples, reagents and ancillary product during a run.

- Automatic start-up and shut down. Always ready to use
- Reagent & ancillary product ready to use. Limited hands on time
- Uncompromised productivity



Innovation In Software:

Simplicity and Traceability

Software Interface

- Real-time level detection monitoring for consumables and reagents
- Guided assay calibration and maintenance schedules
- Ethernet connection for remote diagnostics
- Bi-directional L.I.S compatibility
- Calibration and QC monitoring with complete traceability

Software Management

- Total traceability on one screen. Simple monitoring of results, reagents and consumables with one click of your mouse
- Total L.I.S capability: Results, reagent lots, washer use, QC, messages, comments, order new run giving a total overview for control and validation
- Automatic re-run and /or dilution. Intelligent results management and ease of use
- Rapid servicing by Webex remote control



Commitment to innovation
pioneering research
and development

Ancillary Products

No pre-work required, all IDS-iSYS ancillary products are ready to use.



Consumables

IDS-iSYS Cartridge Check System (CCS)		IS-6010	Worldwide
IDS-iSYS Cuvettes	Pack of 960 cuvettes	IS-CC100	Worldwide
Sample Cups 500 µL	0.5 mL (1000 pieces)	IS-CSC105	Worldwide
IDS-iSYS Triggers Set	2 x 250 mL (Sufficient for 1000 tests depending on priming)	IS-CT100	Worldwide
IDS-iSYS System Liquid (Syst.I)	1 x 5 L (Sufficient for 4000 tests depending on assay protocol & priming)	IS-CS100	Worldwide
IDS-iSYS Wash Solution (Wash S)	1 x 10 L (Sufficient for 1500 tests depending on assay protocol and priming)	IS-CW100	Worldwide
D-SORB Solution	2 x 1 L (Stable on board up to expiration date)	IS-DS100	Europe Only



For more details on our products visit www.idsplc.com



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INTERNATIONAL TRADE
2012



Full Service Solutions

With over 35 years experience in the Medical Diagnostics Field, our dedicated teams of service specialists are on-hand to support customers with:



Application Training and Advice

Technical expertise on-hand to assist customers with any instrument and reagent related queries.



Customised Training

A complete range of bespoke training solutions, tailored to your laboratory requirements and technical needs.



Qualified Customer Care

Our dedicated customer care teams provide on-demand regional support and service.



Regionalised Proximity Teams

Based in the field, our regional service teams are dedicated to supporting customers at their laboratory sites, resolving any issues and ensuring their facilities are operating at maximum efficiency levels.

IDS-iSYS

Instrument Specifications

System

- Multi-discipline Immunoassay System
- Stand-alone walk-away system

Immunoassay Detection

Luminometer

- Wavelengths: from 300 to 500 nm
- Linearity: Up to 10 million RLU

Spectrophotometer

- Spectrophotometer with LEDs technology
- 12 wavelengths interferential filters: 340, 405, 450, 500, 540, 550, 580, 620, 650, 700, 720 and 750 nm.
- Linearity: Up to 3 Abs.
- Bi-chromatic mode availability
- Light sources: multiple LEDs.

Samples

- Serum, plasma or urine
- Sampling on Primary Tubes, Secondary Tubes, Micro cups, paediatric tubes
- Default Sample tube library: Primary Tubes: 4.5 mL, 6 mL, 8.5 mL, 10 mL
- Secondary Tube: 5 mL
- Micro cups: 500 mL, 2 mL
- Further sample tubes can be easily configured
- 120 positions for samples, calibrators and controls (6 racks with 20 positions)
- Possibility of STAT sample at any position
- Integrated reader in sample compartment for automatic reading of barcoded sample tubes (positive identification)
- Barcode types: Code 2/5, EAN/UPC, Code 39, Code 128 and Codabar
- On-board dilution and automatic pre-treatment

Reagent Module

- Up to 15 different immunoassay cartridges
- Integrated reader for automatic reading of reagent cartridge barcodes
- Onboard storage: 12 - 15 °C during operation 8 - 10 °C in standby mode (configuration depending)

Sample Handling

- Single pipetting arm for samples and reagents
- Liquid level detection by capacitance (samples and reagents)
- Clot detection (by pressure transducer)
- Internal and external rinsing between each pipetting of sample
- Possibility of specific rinses using D-SORB solution
- Preheating of sampling (reagents & samples)
- Sample volumes: from 4 µl to 300 µl (assay dependent)

Carousel

- Temperature regulated at 37°C ± 0.5°C
- 90 positions for disposable cuvettes
- Automatic cuvette supply by cuvette loader
- 4 Independent washers

Throughput

- Random access
- Time to first results: < 25 minutes (assay dependent)
- Up to 120 tests/hour (assay dependent)
- > 600 results per day (assay dependent)

Cuvette Loader

- Loader for 1 x cube of cuvettes
- 1 x cube contains 960 disposable cuvettes
- 960 cuvettes on board
- Preheated loader

Ancillary Reagents

- IDS-iSYS Liquid System (5 L)
- IDS-iSYS Wash solution (10 L)
- IDS-iSYS Triggers
- D-SORB Solution

Reader on system front face for barcode identification, cuvettes and ancillary reagents

Waste collection

- 10 litre container for liquid waste
- Solid waste (cuvettes) disposed of in solid waste drawer

Graphic User Interface

- User level management
- Continuous access to programming
- Full traceability: patient results, calibrations, controls
- Automatic calibration. QC management: up to 4 levels, analysis by Levey-Jennings and Westgard rules (configurable) Lot management of reagents, calibrators and controls by barcodes
- Reagent stability management
- Local storage of 5000 patient results (including traceability)
- Connection to LIS: bidirectional communication (ASTM protocol)

Operating System

- Windows XP Pro Service Pack 2
- Windows Vista Service Pack 1
- Windows 7

Dimensions

- System: L 105 x H 70 x W 75 cm
- Weight: 103 kg
- PC: L 60 x H 40 x W 50 cm*

Power Supply

- Voltage: 100 – 240 V
- Frequency: 50 – 60 Hertz
- Maximum power consumed: 750 VA

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