



# UniCel DxI ACCESS IMMUNOASSAY SYSTEMS



Move healthcare forward.

## » WHEN IT COMES TO IMMUNOASSAY TESTING, MID- TO HIGH-VOLUME LABORATORIES HAVE SPECIFIC NEEDS

- › **Exceptional productivity**
- › **Ease-of-use**
- › **Broad menu availability**
- › **Expandability**

**The UniCel DxI family of immunoassay systems is the solution.**



**UniCel DxI 800**



**UniCel DxI 600**

### **Throughput and consistency**

The UniCel DxI family of analyzers is designed to meet the throughput needs of any mid- or high-volume laboratory. Whether it is the DxI 600, that can run up to 200 tests per hour, or the high-speed DxI 800, with a maximum throughput of up to 400 tests per hour, each DxI analyzer uses the same proven chemiluminescent technology, the same reagent packs and the same assay protocols. So, your laboratory can deliver consistent patient results, no matter which UniCel immunoassay system performs the test. Equivalent patient results simplify interpretation by physicians, which helps improve patient care.

### **For the laboratory, consistency between analyzers adds more benefits:**

- › Operator training is simplified and reduced
- › Inventory management is less time-consuming
- › Reliable system operation is achieved through proven technology

# AUTOMATION FOR PEAK PRODUCTIVITY

## Proven analytical performance

The core of the UniCel DxI is Beckman Coulter's proven chemiluminescent detection and magnetic particle-separation technology. Unlike other immunoassay systems, the DxI analyzer uses multiple assay protocols so that assay performance is not compromised.

- › Excellent precision and sensitivity through chemiluminescence technology
- › Chemiluminescent detection helps eliminate reaction noise and delivers a more accurate result
- › Rapid assay kinetics improve the turnaround time for many assays

## Ingenious system design

Under the sleek covers of the UniCel DxI instruments are a system of multiple, auto-matched pipettors working in parallel to deliver sample and reagent into the reaction vessels—achieving a peak throughput of up to 400 immunoassay tests per hour. Each independent pipettor utilizes the same assay protocols as other systems in the family.

- › Multiple pipettors offer built-in redundancy for maximum system uptime
- › Process monitoring provides confidence in the integrity of results
- › Probe wash tower efficiently cleans sample probes, eliminating the need for disposable tips
- › Pick-and-place vessel transport technology works with the process scheduler to make sure throughput and assay performance are optimized





# The UniCel DxI

## DESIGNED WITH YOUR NEEDS IN MIND

### Onboard aliquot capability

The UniCel DxI system creates aliquots based on the volume of requested tests plus any additional volume required for user-defined reflex or repeat test scenarios. To maintain sample stability and facilitate any additional testing required, the system stores the aliquots for up to three hours in a refrigerated storage area. This unique aliquot capability of the UniCel DxI helps improve your laboratory workflow.

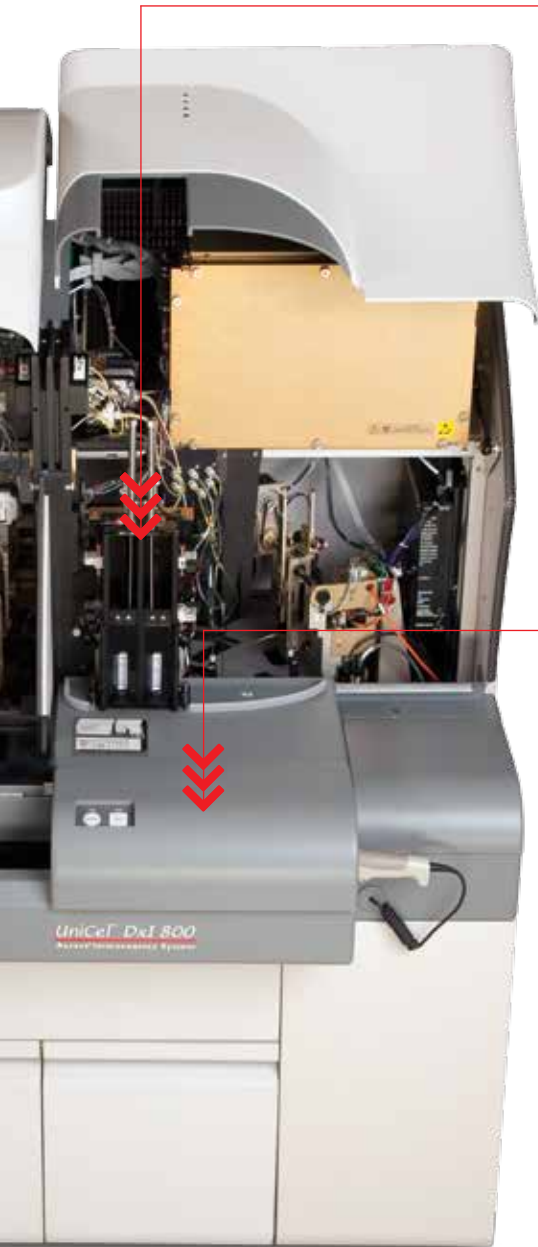
- › The automatic reflex capability eliminates the task of tracking down sample tubes and reloading them
- › The same vessel type is used for aliquots and reactions
- › Automated onboard dilution
- › Allows on-system user-defined reflex conditions and repeat testing for automatic dilutions

### Streamlined sample handling

With a UniCel DxI system, operators will experience high throughput with consistent rack loading that won't interrupt system operation. Our instruments are designed to meet various throughput needs with streamlined sample handling. The UniCel DxI 600 has a 60-specimen capacity with 200 tests per hour, and the UniCel DxI 800 has a 120-specimen capacity with 400 tests per hour.

- › The system automatically creates aliquots of the sample, so each rack is released in less than five minutes for testing in other areas of the laboratory
- › Routine sample loading can be interrupted to load STAT samples quickly—your laboratory can take advantage of the system's full menu without impacting the throughput of STAT assays
- › Radio frequency sensors on the sample probe alert operators to short samples
- › Obstruction detection on the sample and reagent probes helps ensure sample integrity and accurate results
- › Sample probes are washed after each aliquot, eliminating the need for disposable tips and preventing possible carry-over
- › By releasing the primary tube quickly, the system allows for continuous loading of routine samples, virtually eliminating bottlenecks





## Simplicity in motion

The UniCel DxI systems deliver high throughput with minimal operator intervention. Although extremely powerful, the UniCel DxI systems are amazingly simple to use.

- › Operators can load all reagents and consumables “on-the-fly” without using the console computer
- › Operators can still access the system from the front for STATs, calibrators and other sample exceptions
- › Indicator lights alert operators to system status and a pictogram shows which supplies need replenishment
- › The system delivers up to three hours of walkaway operation

## Efficient reagent system

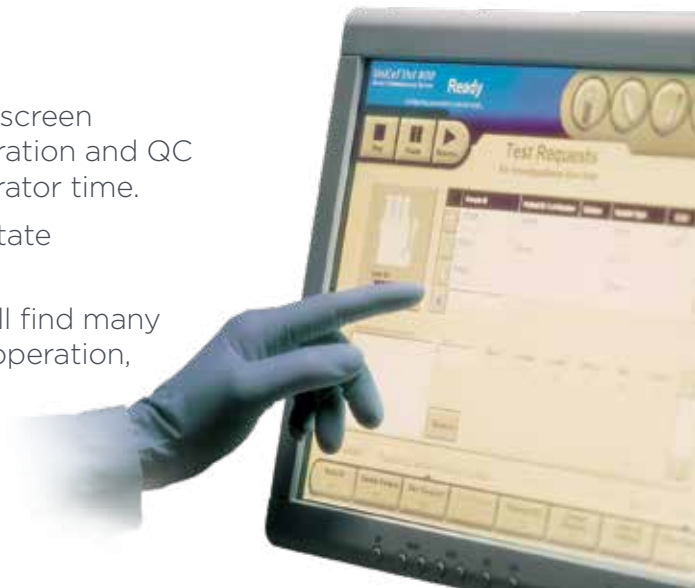
Barcoded, liquid, ready-to-use reagents can be loaded on the system quickly and easily. The system holds 50 self-resealing reagent packs, which gives you the flexibility to configure the system menu to match your testing requirements.

- › Load up to four reagent packs at a time without touching the system console
- › Each reagent pack contains everything needed to run an assay in one single convenient container
- › System maintains stored reagents in an on-board refrigerator, maintaining reagent stability up to labeled expiration dates
- › Reagent packs are compatible with other UniCel systems
- › Easy-to-use liquid calibrators for almost all assays

## Intuitive user interface

Operators find the graphical user interface with touch screen capability very easy to use. Manual test requests, calibration and QC can be accomplished in just a few steps, reducing operator time.

- › The software includes context-sensitive help to facilitate troubleshooting and operator training
- › Laboratories equipped with other UniCel systems will find many similarities in the user interface screens and system operation, which expedites operator training





# INNOVATION DELIVERS POWERFUL EFFICIENCY



## Remote monitoring

PROService is an optional, remote management system that continuously monitors Beckman Coulter instruments to identify problems before they become evident in the laboratory. If a parameter goes out of normal range (e.g., temperature, power or vacuum pressure) PROService automatically alerts the Beckman Coulter support center.

A call center agent may then contact your laboratory and, with permission, perform further diagnosis or actual system correction. If a service visit is necessary, your Field Service Engineer (FSE) is able to bring exactly the right parts and supplies needed to correct the problem. Additional benefits:

- › Decrease in workflow disruptions that may be caused by an onsite FSE presence
- › Beckman Coulter's PROService Alert Triggers communicate predictive failures to support teams for review before an unexpected downtime scenario
- › The time-to-resolution is decreased with remote monitoring, triage and repair, so customers can return to normal operation as quickly as possible. Remote monitoring can eliminate travel of service engineers to a customer's site which can decrease the time it takes to resolve the problem helping to ensure a higher level of business continuity—sustained testing, less downtime
- › Benefit from immediate and accurate diagnosis. Help is only a mouse click away for instant remote support from trained Beckman Coulter personnel. Their toolsets ensure timeliness and accuracy. If parts are required, they can be shipped and an FSE can be onsite (if needed)



## Minimal maintenance means more uptime

- › Minimal “hands-on” daily maintenance and no weekly maintenance increases instrument uptime, enhancing productivity
- › A wide array of advanced sensors monitor system status and test processing to ensure result integrity
- › Automated “behind-the-scenes” cleaning procedures ensure optimal instrument performance



# ACCESS IMMUNOASSAY MENU

## Adrenal/Pituitary

Cortisol (Serum, Plasma, Urine)

## Allergy

Total IgE

## Anemia

Active B12\*  
EPO  
Ferritin  
Folate  
Folate (RBC)  
Intrinsic Factor Ab  
sTfR  
Vitamin B12

## Bone metabolism

25 (OH) Vitamin D Total  
Intact PTH  
(Routine or Intraoperative)  
Ostase  
Ultrasensitive hGH

## Cardiovascular

AccuTnl+3 (Troponin I)  
CK-MB  
Digoxin  
hsTnl\*  
Myoglobin  
Triage BNP†

## Diabetes

Ultrasensitive Insulin

## Inflammation

IL-6 (RUO)\*\*

## Infectious disease

Rubella IgG  
Toxo IgG  
Toxo IgM II

## Reproductive

AFP (ONTD)  
AMH (RUO)\*\*\*  
DHEA-S  
Estradiol  
hFSH  
hLH  
Inhibin A  
PAPP-A (RUO)\*\*\*\*  
Progesterone  
Prolactin  
Sensitive Estradiol\*  
SHBG  
Testosterone  
Total  $\beta$ hCG (5<sup>th</sup> IS)  
Unconjugated Estriol

## Thyroid

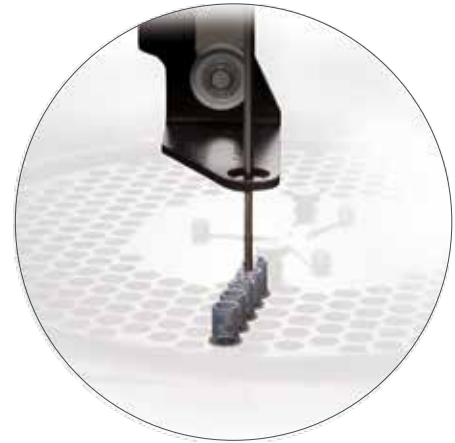
T3 (Free and Total)  
T4 (Free and Total)  
Thyroglobulin  
Thyroglobulin Ab II  
Thyroid Uptake  
TPO Ab  
TSH (3<sup>rd</sup> IS)§

## Tumor markers

AFP  
CEA  
BR Monitor (CA 15-3 Antigen)  
GI Monitor (CA 19-9 Antigen)  
OV Monitor (CA 125 Antigen)

## Prostate health

Hybritech PSA  
Hybritech Free PSA  
Hybritech p2PSA  
Prostate Health Index ( $\rho$ hi)‡



With a broad menu across a wide variety of disease states, the UniCel DxI immunoassay system enables your laboratory to consolidate workstations. An aggressive menu development program means that the system menu will grow as your lab and testing requirements grow.



# ENTRY AUTOMATION

Clinical laboratories of all sizes are facing ever-increasing demands for broader test menu, rapid test turnaround times and optimal workflow with reduced human intervention. The Power Link system, which links an AU680 chemistry system and DxI immunoassay analyzer into an entry-level automated system, is designed to meet the needs of medium-to-high test volume laboratories. The Power Link system offers a flexible, single-specimen workflow, eliminating the complexity and bottlenecks of aliquotting or rack-based systems. The Power Link system offers complex, rules-based sample and data management capabilities with labor savings and ease of service.



AU680

Power Link

UniCel DxI 600 or 800

Contact your local Beckman Coulter sales representative for availability.

\* In development

\*\* Research use only (RUO)

\*\*\* AMH is an RUO in US and IVD in Canada.

\*\*\*\* PAPP-A is an RUO in the U.S. It is an IVD in Canada.

† Available exclusively from Alere or its authorized distributors for use on Beckman Coulter immunoassay systems.

Alere and Triage are trademarks of the Alere group of companies.

‡ *phi* is a combination of Hybritech PSA, free PSA and p2PSA.

§ Pending clearance by the U.S. FDA; not available for in vitro diagnostic use in the U.S.

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