

Why run 400 immunoassays per hour?  
Because life doesn't wait.

**UniCel Dxl 800 Access Immunoassay System**

Blood Banking  
Centrifugation  
Chemistry  
Flow Cytometry  
Hematology  
Hemostasis  
**Immunoassay**  
Information Systems  
Lab Automation  
Molecular Diagnostics  
Rapid Diagnostics





## Simplified, Automated, Innovative Immunoassay Testing

When it comes to immunoassay testing, high-volume laboratories have special challenges – you require exceptional productivity and ease-of-use, plus a broad menu to support a wide range of testing.

And if your laboratory works with other satellite labs, you also need to deliver consistent patient results, no matter where the tests are performed.

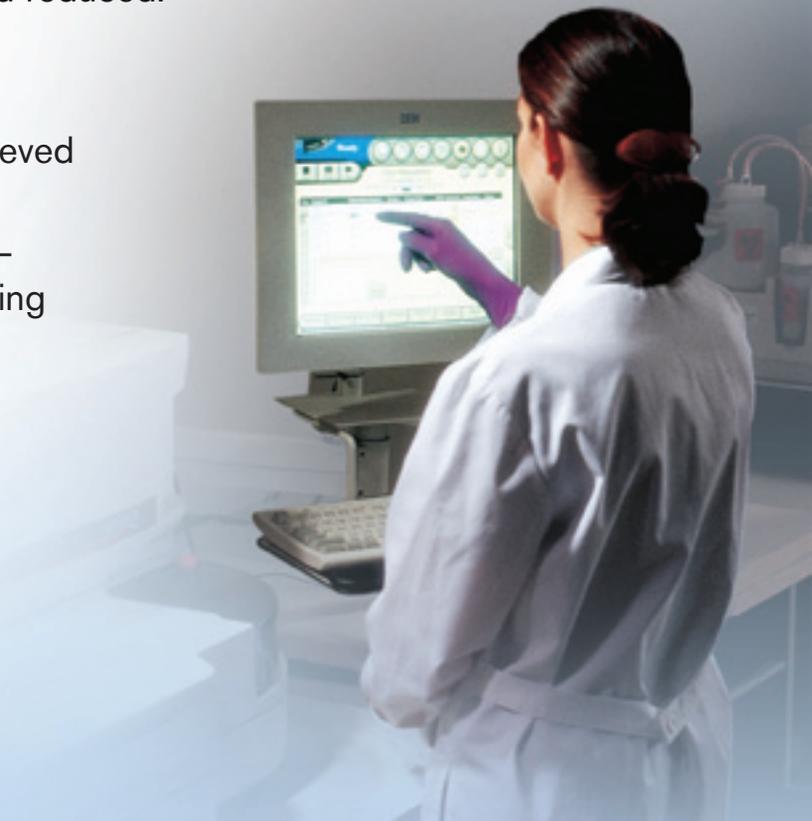
The high-throughput UniCel Dxl 800 is your solution.

### **Building on Strength**

The UniCel Dxl 800 is the premier analyzer within Beckman Coulter's family of immunoassay systems. This high-speed analyzer, with a maximum throughput of 400 tests per hour, uses the same proven chemiluminescent technology, the same reagent cartridges, and similar assay protocols as other analyzers in the UniCel immunoassay family. 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.
- Menu development is optimized – resources are focused on delivering the panels patients need most.



# Automation for Peak Productivity

## Streamlined Sample Handling

With the UniCel Dxl 800, operators can load up to 30 racks – 120 samples – at one time or load racks continuously. Sample racks can be loaded directly from the centrifuge, reducing manual processes.

- 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 – helping your lab improve turnaround of patient results.
- Radio frequency sensors on the sample probe alert operators to short samples.
- Automated on-board dilution helps streamline workflow and increase productivity.
- Obstruction detection on the sample and reagent probes help ensure sample integrity and accurate results.
- Racks are compatible with Beckman Coulter UniCel and Synchron LX immunoassay systems, decreasing sample handling across multiple systems.
- Routine sample loading can be interrupted to load STAT samples quickly — your lab can take advantage of the system's full menu without impacting the throughput of stat assays.
- With ultrasonic, technologically-advanced washing protocols for sample and reagent probes, the UniCel Dxl 800 meets established specifications for carryover, eliminating need for disposable tips.



**By releasing the primary tube quickly, the system allows for continuous loading of routine samples, virtually eliminating bottlenecks.**



## On-board Aliquot Capability

The UniCel DxI 800 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 patented refrigerated storage area.

- The automatic reflex capability eliminates the task of tracking down sample tubes and reloading them, improving efficiency and turnaround time.
- To simplify inventory management, the same vessel type is used for aliquots and reactions.

## Automated On-board Dilution\*

- On-board dilution improves workflow efficiency.
- Allows user-defined reflex conditions and repeat testing for automatic dilutions.

## Integration with Automation

'Point-in-space' pipetting technology aligned with CLSI guidelines allows for integration with laboratory automation systems, including Beckman Coulter's Progressive Automation Solutions.

- Operators can still access the system from the front for STATs, calibrators and other sample exceptions.
- Sample tubes are aspirated in 18 seconds, and then quickly move on for further testing, which helps improve turnaround time and service to physicians.

\* The UniCel DxI on-board dilution feature is not available in all countries.



The unique aliquot capability of the UniCel DxI 800 helps improve your laboratory workflow.

'Point-in-space' pipetting technology aligned with CLSI guidelines allows integration with laboratory automation systems.



## Simplicity in Motion

The UniCel Dxl 800 delivers high throughput with minimal operator intervention.

### Load 'On-the-Fly'

Although extremely powerful, the UniCel Dxl 800 is amazingly simple to use.

- Operators can load all reagents and consumables 'on-the-fly' without using the console computer, minimizing manual intervention.
- Indicator lights alert operators to system status and a pictogram shows which supplies need replenishment.
- Wash buffer, reaction vessels and other supplies are conveniently packaged in large volumes to match system throughput.
- The system delivers up to three hours of walkaway operation.

## Efficient Reagent System

Bar-coded, 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. For instance, your lab can load reagent sufficient to perform 1,000 TSH tests and still leave room for 30 more reagent packs.

- Load up to four reagent packs at a time without touching the system console.
- Each assay needs only one reagent pack.
- The refrigerated storage compartment enhances reagent stability.
- System software manages reagent inventory.
- Reagent pack compatibility with other UniCel systems simplifies inventory management and reduces waste.
- Easy-to-use liquid calibrators for almost all assays also reduce process steps.



**Load any combination of tests - from 50 packs of one assay to one pack of 50 assays - depending on your need.**

## 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 Call Center. A Call Center agent may then contact your lab and, with permission, perform further diagnosis or actual system correction. If a service call is necessary, your Field Service Engineer is able to bring exactly the right parts and supplies needed to correct the problem.



## Intuitive Operator 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 the amount of time operators spend.

- 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.

## Minimal Maintenance

- Minimal 'hands-on' daily maintenance and no weekly maintenance increases instrument uptime, enhancing productivity.
- More than 130 sensors monitor system status and test processing to ensure result integrity.
- Automated 'behind the scene' cleaning procedures ensure optimal instrument performance.

# Innovation Delivers Powerful Efficiency

## Proven Analytical Performance

The core of the UniCel Dxl 800 is Beckman Coulter's proven chemiluminescent detection, magnetic particle-separation technology. Chemiluminescence delivers excellent precision and sensitivity, plus a broad dynamic range — measuring across six orders of magnitude.

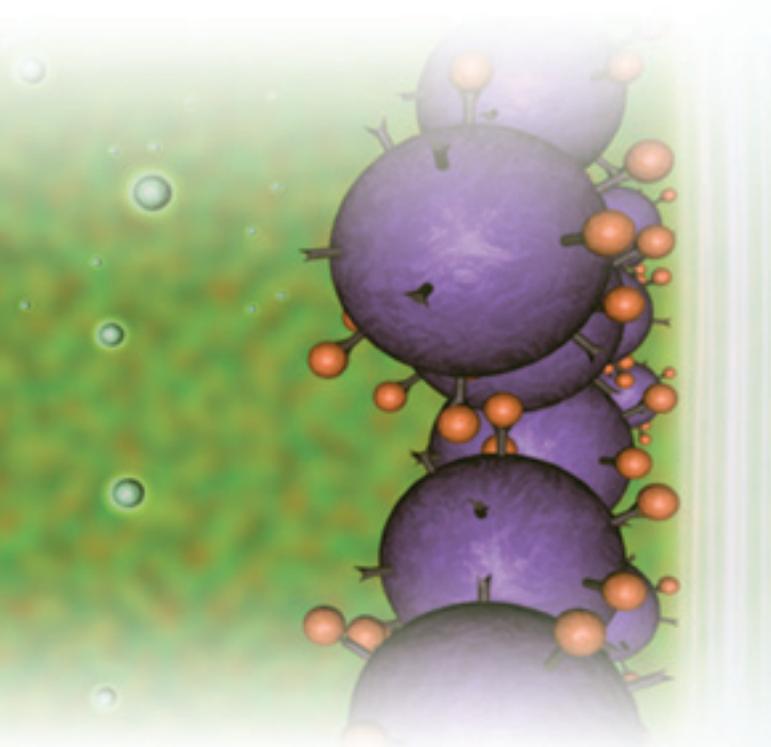
- Unlike many other immunoassay systems, the UniCel Dxl 800 uses multiple assay protocols, designed so assay performance is not compromised.
- Rapid assay kinetics improve the turnaround time for many assays.
- The technology also optimizes the use of small sample volumes.
- Chemiluminescent detection helps eliminate reaction noise and deliver a more accurate result.



## Broad Menu

Several of the available tests, such as Hybritech PSA and free PSA, provide gold standard performance for sensitivity and specificity.

With a broad menu across a wide variety of disease states, the UniCel Dxl 800 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.



**Chemiluminescence delivers excellent precision and sensitivity, and a broad dynamic range.**

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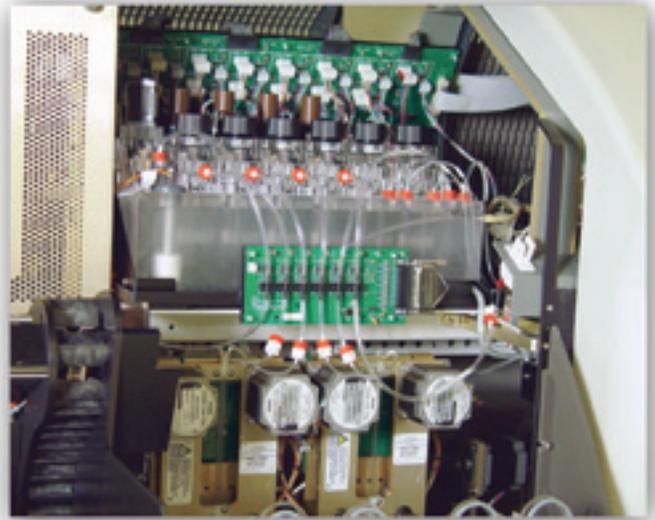
## Autoimmune

# Blood

## Ingenious System Design

Under the sleek covers of the UniCel Dxl 800, a system of multiple, auto-matched pipettors works in parallel to deliver sample and reagent into the reaction vessels – achieving a peak throughput of up to 400 tests per hour. Each independent pipettor utilizes assay protocols similar to other systems in the family.

- Multiple pipettors offer built-in redundancy for maximum system uptime.
- Process monitoring provides confidence in the integrity of results.
- Patented 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.



Process monitoring provides confidence in the integrity of results.

**Cardiac**      **Tumor Markers**  
**roid**      **Allergy**      **Anemia**  
**Infectious Disease**  
**Reproductive**      **Adrenal/Pituitary**  
**Virus\***      **Bone Metabolism**  
**Diabetes**

# The Growing UniCel Family Continues to Offer More



In just a few years, the UniCel immunoassay family has grown from one instrument – the UniCel Dxl 800 – to several, including the Dxl 600 and a wide range of integrated systems.

The UniCel integrated systems help illustrate the key UniCel concept: integrated systems transforming your laboratory's daily operations into the perfect blend of peak performance, outstanding capacity and simplicity of operation.

Count on UniCel systems to deliver:

- Similar system software across all testing platforms, minimizing operator training.
- Consolidation of testing to improve turnaround times and efficiency in your lab.
- Identical reagents and consistent test results across the UniCel family of immunoassay instruments to improve patient care.
- Common data management to organize and track vital information.

The UniCel family continues to grow – look for more exciting solutions for your laboratory as new systems are developed.



**UniCel Dxl 800 Access  
Immunoassay System**

**UniCel Dxl 600 Access  
Immunoassay System**



**UniCel DxC 600i Synchron  
Access Clinical System**



**UniCel DxC 880i Synchron  
Access Clinical System**





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