

# UniCel® DxI 600

Access® Immunoassay System

Expanding your lab's capabilities with the newest member of the UniCel family

General Chemistry  
Lab Automation  
Information Systems  
Molecular Diagnostics  
**Immunodiagnosics**  
Centrifugation  
**Disease Management**  
Hematology  
Hemostasis  
Flow Cytometry  
Primary Care



Today's clinical laboratories need to find new ways to increase efficiency and productivity, while dealing with challenges, such as budget constraints, staffing shortages, and diverse testing requirements.

The UniCel® DxI 600 immunoassay system allows laboratories to decrease process steps and improve turnaround time – with astounding ease of use. It also uses the same reagents as other systems in the UniCel Access family, so your laboratory can deliver consistent patient results, no matter which Beckman Coulter immunoassay system performs the test.

- Throughput of up to 200 tests per hour with continuous loading of STAT and routine samples to meet your peak workflow requirements
- System releases the primary tube after creating an aliquot
- Refrigerated compartment holds 50 reagent packs in any configuration – allowing you to configure the system menu to match your testing needs
- Reagent packs compatible with other UniCel Access family systems simplify inventory management
- Operators can load all reagents and consumables “on-the-fly” without pausing the instrument
- A broad menu and simple operation give you the flexibility you need
- To add patient samples, you just load the tubes and walk away!

# UniCel<sup>®</sup> DxI 600 Access<sup>®</sup> Immunoassay System

## Technology

Dioxetane-based chemiluminescence (Lumi-Phos)\*  
Magnetic particle separation

## Detection Systems

Chemiluminescent detector: Luminometer

## Throughput

Up to 200 tests/hr maximum

## Compartment Temperatures

Incubator and wash/read carousel: 37°C  
Sample carousel: 4 – 10°C  
Reagent compartment: 4 – 10°C

## Reagent Capacity

50 reagents packs of 50 tests each  
System menu can be configured to match laboratory testing patterns (ability to load any combination of assay packs)\*\*  
Automatic disposal of empty packs

## Immunoassay Menu Capacity

> 50 preprogrammed, bar-coded immunoassay methods currently available\*\*

## Bar-coded Reagents

Automatic tracking of  
Available tests  
Expiration date  
Lot number  
Calibration expiration

## Calibration

Calibration stability up to 56 days (assay dependent)  
Calibration data and parameters displayed on screen and in printouts

## Communication Modes

Unidirectional, bi-directional, bi-directional with true host query  
RS-232C Serial

## Sample Container Sizes

Primary tubes  
12 or 13 x 75 mm glass  
12 or 13 x 75 mm plastic  
13 x 100 mm  
16 x 75 mm  
16 x 85 mm  
Sample cups  
0.5 mL cup  
2 mL cup  
1 mL insert in a 13 x 100 mm tube  
3 mL in 16 x 100 mm rack  
2 mL insert in a 16 x 100 mm tube  
1 mL insert in a 13 x 75 mm tube  
Pediatric insert in adaptor

Autoaliquot tubes

## Sample Types (assay dependent, partial list)

Serum  
Plasma  
Urine  
Amniotic fluid  
Whole blood

## Sample Management/Capacity

60 sample tubes (15 racks of four tubes), continuous loading  
Primary tube released after aliquot is made (≤ 5 min.)  
300 aliquots (≤ 200 µL) per hour  
Capable of automation connection  
Bar-code symbologies:  
Code 39 (Code 3 of 9, or SD-3),  
Code 128 (USD-6),  
Interleaved 2 of 5 (USD-1),  
Codabar (USD-4)

Sample volume  
5 – 250 µL (assay dependent)  
560 µL in aliquot vessel, maximum  
(including any potential reflex tests)  
Sample and reagent pipettor obstruction detection

## Power and Environmental Requirements

Analytic unit  
220 VAC, 20 A  
50/60 Hz, nominal  
L6 – 20P twist-lock plug (optional unterminated plug for international use)

Console (system and monitor)

100 – 240 VAC  
110 VAC, 6 A  
220 VAC, 3 A  
50/60 Hz  
NEMA 5 – 15P plug

Printer

110 VAC, 7 A  
50/60 Hz  
NEMA 5-15P plug

Heat output

3775 BTU/hr (analytic unit)  
1280 BTU/hr (console)  
1433 BTU/hr (printer)

Ambient operating environment

Ambient temperature: +18°C to +32°C (≤ 2°C change per 30 min.)  
Relative humidity: 20 to 85% relative, non-condensing  
Altitude: ≤ 7,500 ft. (2286 m)  
Noise generated: ≤ 65 dBA (1 meter in front, 185 cm from floor, 18-25 deg C)

## Dimensions and Weight

Analyzer  
Height: 67 in (170 cm)  
Width: 61.5 in (156 cm)  
Depth: 37.5 in (95.5 cm)  
Weight: 1065 lbs (483 kg)

Console cart

Height: variable  
Length: 29.8 in (75.7 cm)  
Depth: 37.8 in (96 cm)

Clearance requirements

Top clearance: 8.5 in (22 cm)  
Front clearance: 22 in (56 cm) for supplies  
36.5 in (93 cm) to open SPU  
Rear clearance: 11.8 in (30 cm) for ventilation  
14.5 in (37 cm) to open top cover  
Side clearance (cart): 29.8 in (75 cm)

## Waste Requirements

Solid waste collected in waste container  
Liquid waste collected in two reusable plastic containers  
(optional floor drain kit available)

\* Lumi-Phos is a trademark of Lumigen™, a Beckman Coulter Company

\*\* Contact your Beckman Coulter representative for DxI 600 assay availability in your country



Simplify • Automate • Innovate

Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 365 3707. Australia, Gladesville (61) 2 9844 6000.  
Canada, Mississauga (1) 905 819 1234. China, Beijing (86) 10 6515 6028. Czech Republic, Prague (420) 267 00 83 66.  
Hong Kong (852) 2814 7431, 2814 0481. France, Villepinte (33) 1 49 90 90 00. Germany, Krefeld (49) 2151 33 35.  
India, Mumbai (91) 22 3080 5101. Italy, Cassina de' Pecchi (Milan) (39) 02 953921. Japan, Tokyo (81) 3 6745 4704.  
Latin America (1) (305) 380 4709. Mexico, Mexico City (52) 55 560 57770. Netherlands, Mijdrecht (31) 297 230630. Puerto Rico (787) 747 3335.  
Singapore (65) 6339 3633. Spain, Madrid (34) 91 3836080. South Africa/Sub-Saharan Africa, Johannesburg (27) 11 805 2014.  
Sweden, Bromma (46) 8 564 85 900. Switzerland, Nyon 0800 850 810. Taiwan, Taipei (886) 2 2378 3456. Turkey, Istanbul (90) 216 309 1900.  
UK, High Wycombe (44) 01494 441181. USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321.

B2007-7743-PO-5K

www.beckmancoulter.com

© 2007 Beckman Coulter, Inc.

PRINTED IN U.S.A.