

UniCel DxI 800 ACCESS IMMUNOASSAY SYSTEM



INSTRUMENT SPECIFICATIONS

Exceptional productivity. Amazing simplicity.

Today's high-volume 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 800 Access immunoassay system allows laboratories to decrease process steps and improve turnaround time with astounding ease of use.

Standard features:

- › Throughput of up to 400 tests per hour, up to 120 samples onboard, with continuous loading of STAT and routine samples meets your peak workflow requirements
- › System automatically creates aliquots and releases the primary sample tube in less than five minutes
- › Built-in reflex capability improves efficiency and turnaround time—no need to track down sample tubes for retesting
- › Configurable system menu matches your testing requirements—refrigerated compartment holds 50 reagent packs
- › System software with graphical user interface is easy to use, minimizing operator training requirements and increases proficiency
- › “On-the-fly” reagent and consumable loading without pausing the instrument



UniCel DxI 800 Access Immunoassay Instrument Specifications

MAIN SPECIFICATIONS

Analytical system

Fully automated, random-access immunoassay analyzer for high-volume laboratories

Measurement principles

Dioxetane-based chemiluminescent (Lumi-Phos*)

Analytical method

Chemiluminescent detector: luminometer

Throughput

Up to 400 tests/hr maximum (one-step assays)

Compartment temperatures

Incubator and wash/read wheel: 37°C

Sample wheel: 4°C to 10°C

Reagent compartment: 4°C to 10°C

Sampler capacity

50 reagent packs

System menu can be configured to match laboratory testing patterns (ability to load one pack of 50 different assays or 50 packs of one assay)

Automatic disposal of empty packs

Immunoassay menu capacity

>50 preprogrammed, barcoded immunoassay methods currently available*

Barcoded reagents

Automatic tracking of:

- Number of tests
- Available tests
- Expiration date
- Lot number
- Calibration expiration

Calibration

Calibration curve stability up to 56 days (assay dependent)

Calibration curves and parameters displayed on screen and printouts

Sample management/capacity

120 sample tubes (30 racks of four tubes), continuous loading

Primary tube released after aliquot is made (<5 minutes)

300 aliquots (≤200 µL) per hour

Capable of automation connection

Barcode symbology:

- Code 39 (Code 3 of 9, or SD-3)
- Code 93
- Code 128 (USD-6)
- Interleaved 2 of 5 (USD-1)
- Codabar (USD-4)

Sample volume:

- 5-210 µL (assay dependent)
- 500 µL in aliquot vessel, maximum (including any potential reflex tests)

Sample and reagent pipettor obstruction detection

Sample container sizes

Primary tubes:

- 12, 13 x 75 mm glass or plastic
- 16 x 75 mm
- 16 x 85 mm
- 13, 16 x 100 mm

Sample cups:

- 0.5 mL
- 2.0 mL
- 3.0 mL
- 1.0 mL
- 2.0 mL insert cups

Pediatric insert

Auto aliquot tube

Sample types (assay dependent, partial list)

Serum

Plasma

Urine

Amniotic fluid

Whole blood

Communication modes

Unidirectional, bi-directional, bi-directional with true host query

RS-232C serial

INSTALLATION REQUIREMENTS

Dimensions and weight

Analyzer:

Height: 67 in (170 cm)

Length: 67.5 in (171 cm)

Depth: 37.5 in (97 cm)

Weight: 1,390 lbs (630 kg)

Console cart:

Height: variable

Length: 29.8 in (76 cm)

Depth: 37.8 in (96 cm)

Clearance requirements:

Top clearance: 8.5 in (22 cm)

Front clearance: 15.5 in (39 cm)

38.5 in (98 cm) to open SPU

Rear clearance: 11.8 in (30 cm) for ventilation

14.5 in (37 cm) to open top cover

Side clearance: 29.8 in (76 cm)

Power and environmental requirements

Analyzer:

200 to 240 VAC, 20 A

50/60 Hz, nominal

L6-20P twist-lock plug (optional unterminated plug for international use)

Console:

Computer case: Mini PC 90969 VESA mounted system

CPU board: Intel NUC5i3MYBE

CPU: Intel® Core™ i3-5010U processor (3M Cache, 2.10 GHz)

Random access memory: 2GB, DDR3-1600, 256Mx64,

204 Pin SODIMM

Storage hard drive: 128GB M.2 SSD

Optical drive: Slim external USB optional DVD-RW/CD-RW

Power supply: External AC to DC universal power adapter

Monitor:

17" touchscreen, flat panel, color monitor

Operating system:

Windows 8

Heat output:

3,775 BTU/hr (analyzer)

1,280 BTU/hr (console)

Ambient operating environment:

Ambient temperature: 18°C to 30°C

(≤2° C change per 30 minutes)

Relative humidity: 20% to 85%, non-condensing

Altitude: ≤7,500 ft (2,300 m)

Noise generated: ≤60 dBA (1 meter in front, 185 cm from floor)

Waste requirements

Solid waste collected in waste container

Liquid waste default setting provides floor drain kit to route waste directly to the floor drain (optional onboard liquid waste storage kit is available)

*Lumi-Phos is a trademark of Lumigen, Inc. and is registered in the USPTO.