

DxI 9000 Immunoassay Analyzer Direct Sampling

Flexible sampling options when sample volume matters

Background

Clinical laboratories manage a wide range of specimen types, including samples where available volume may be limited. The DxI 9000 Immunoassay Analyzer offers Direct Sampling as an optional workflow to help laboratories address these situations with greater flexibility.

Direct Sampling expands the ways in which samples can be processed on the DxI 9000 analyzer, allowing laboratories to select the sampling approach that best fits each testing scenario—without changing their routine workflow for standard samples.

Test Principle

Direct Sampling is a software-enabled feature available on the DxI 9000 Immunoassay Analyzer that allows the instrument to aspirate sample directly from the insert or cup in the rack into a reagent shuttle reaction vessel for immediate processing. This approach bypasses the sample wheel for the selected rack and is designed for intentional use in low-volume scenarios, such as pediatric or otherwise limited specimens.

Features and Benefits

Conserves low-volume samples by eliminating system dead volume (no sample wheel RV dead volume) and the sample overdraw when Direct Sampling is used.

Samples are processed directly from the rack. Direct sampling tests are assigned the highest processing priority (intended for targeted use when volume matters).

Dxl 9000 Immunoassay Analyzer Direct Sampling

Internal evaluations demonstrate that Direct Sampling maintains analytical performance consistent with standard sampling workflows on the Dxl 9000 system. Patient results are unaffected when tests are run using Direct Sampling for appropriate use cases.

Direct Sampling is designed to conserve sample volume, with the understanding that overall system throughput is reduced. For this reason, it is recommended for targeted use rather than routine testing.

Supported Container Types

Note: Only containers identified as compatible with Direct Sampling should be used.

Sample Tubes (Use DxLAB Tube Rack)

Tube Type	Dead Volume	Direct Sampling
12-mm or 13-mm x 75-mm	500 µL	
12-mm or 13-mm x 100-mm	500 µL	
16-mm x 75-mm or 16-mm x 100-mm	800 µL	
Pediatric insert cup (Beckman Coulter PN 81916) in an adapter (Beckman Coulter PN 472987)	150 µL	✓
Insert cup in a 12-mm or 13-mm x 75-mm tube, 1.0-mL (Beckman Coulter PN 81915)	350 µL	
Insert cup in a 12-mm or 13-mm x 100-mm tube, 1.0-mL (Beckman Coulter PN 81915)	400 µL	
Sample cup in a 16-mm x 100-mm tube, 0.5-mL (Beckman Coulter PN 651412)	80 µL	✓
Sample cup in a 16-mm x 100-mm tube, 2.5-mL (Beckman Coulter PN MU853200)	100 µL	✓
Access sample cup in a 16-mm x 100-mm tube, 2.0-mL (Beckman Coulter PN 81902)	150 µL	✓
Sample cup in a 16-mm x 100-mm tube, 2.0-mL (Beckman Coulter PN 652730)	150 µL	✓
Plastic, 12.6-mm x 90-mm (for example, 4.9 mL Sarstedt S-Monovette tube)	500 µL	
Plastic, 15.4-mm x 75-mm (for example, 5.5 mL Sarstedt S-Monovette tube)	800 µL	
Plastic, 15.4-mm x 92-mm (for example, 7.5 mL Sarstedt S-Monovette tube)	800 µL	
16-mm x 92-mm (for example, 9.0 mL Sarstedt S-Monovette tube)	1,200 µL	

Sample Cups (Use DxLAB Cup Rack)

Cup Type	Dead Volume	Direct Sampling
Sample cup, 0.5-mL (Beckman Coulter PN 651412)	80 µL	✓
Sample cup, 2.5-mL (Beckman Coulter PN MU853200)	100 µL	✓
Access sample cup, 2.0-mL (Beckman Coulter PN 81902)	150 µL	✓
Sample cup, 2.0-mL (Beckman Coulter PN 652730)	150 µL	✓
Access sample containers, 3.0-mL (Beckman Coulter PN 81914)	150 µL	

Direct Sampling is an optional feature available on the Dxl 9000 Immunoassay Analyzer. For detailed information on software requirements and availability, contact your Beckman Coulter representative.

Choose the right sampling option for every situation.

With Direct Sampling on the Dxl 9000 system, laboratories gain added flexibility to manage low-volume samples—while continuing to rely on standard sampling for routine testing. Contact your Beckman Coulter representative to learn more about how Direct Sampling can support your laboratory's needs.



© 2026 Beckman Coulter, Inc. All rights reserved. Beckman Coulter, the stylized logo, and the Beckman Coulter product and service marks mentioned herein are trademarks or registered trademarks of Beckman Coulter, Inc. in the United States and other countries. The Danaher trademark is a proprietary mark of Danaher Corporation. All other trademarks are the property of their respective owners.

For Beckman Coulter's worldwide office locations and phone numbers, please visit www.beckmancoulter.com/contact

MAPSS-3068-GBL-EN-v3

