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Beckman Coulter launches total laboratory automation solution

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The DxA 5000 delivers rapid and consistent turnaround time, provides the industry's most comprehensive pre-analytical sample quality assessment and improves laboratory efficiency



Beckman Coulter, a global leader in clinical diagnostics, announced that the latest addition to its market-leading automation portfolio, the DxA 5000 total laboratory automation solution has achieved European CE Mark and China Food and Drug Administration approval.

Reporting results faster to physicians can positively impact patient outcomes. In the laboratory, specimen centrifugation is typically the most time-consuming pre-analytical activity. The DxA 5000 sets a new standard by utilizing a universal centrifugation protocol that significantly reduces the pre-analytical processing time by up to 73% for connected analyzers across multiple disciplines.[3]

Additionally, the DxA 5000 supports laboratories in delivering highly consistent turnaround time to their physicians. Leveraging first-of-its-kind dynamic system software, the DxA 5000 utilizes Intelligent Routing to bring automated patient-centric workflow to the laboratory. By understanding the tests requested, sample volume available and real-time analyzer capacity and status, the DxA 5000 continuously calculates the most expeditious route for every patient sample—both STAT and routine.

Unmatched Quality Assessment and Improved Efficiency

The DxA 5000 is designed with a sharp focus on sample quality assessment, screening each sample at multiple points to help laboratories substantially reduce the risk of errors. In three seconds, the system detects patient tube parameters such as volume, sample identification, tube type, cap color, orders pending and tube weight.

The system is also designed to check for sample volume at three separate points: pre-centrifugation, post-centrifugation and prior to sample storage to continually ensure sufficient volume is available for the tests ordered. Together, these quality assessments reduce the potential for release of erroneous results and can help accelerate time to result by quickly alerting the laboratory when a new patient sample is needed.

In addition to improving sample quality, laboratories also require workflow solutions that help them manage high volumes of outpatient, outreach and network samples, while processing urgent requests for both patient wards and emergency departments.

The DxA 5000 simultaneously manages high volumes of multiple discipline requests, with a large variety of patient sample tubes and sizes, without impact to overall system throughput or STAT turnaround time. By automating sample processing steps, the DxA 5000 supports laboratories in delivering a higher number of results per hour with the same staffing level.

The first in a suite of DxA systems currently in development, the DxA 5000 enhances Beckman Coulter's comprehensive portfolio of scalable solutions and is a key component of its vision to bring workflow automation to laboratories of all sizes. This launch is the culmination of years of customer-inspired design and rigorous reliability testing and strengthens Beckman Coulter's ongoing commitment to providing solutions that deliver accurate results with fast, consistent turnaround time, better detection of pre-analytical errors, and more efficient workflows designed to fit the needs of any-sized laboratory.