

DxH 520 HEMATOLOGY ANALYZER



DYNAMIC-GATING TECHNOLOGY

With one of the smallest footprints and aspirations in its class, the DxH 520 streamlines capillary-blood sample analysis, such as those typically seen from infant, geriatric, oncological and critical-care patients. Ideal for the low-volume labs, the compact DxH 520 delivers comprehensive analysis with a CBC and 5-part differential. Proprietary dynamic-gating technology delivers a higher-quality 5-part differential test result than static gating, strengthening confidence in diagnostic testing results.

- **Deliver high-quality results with proprietary dynamic-gating technology**

The DxH 520 analyzer provides accuracy through Coulter Principle technology and axial light loss (ALL) for a white blood cell (WBC) differential. Proprietary dynamic-gating technology increases the automated differential accuracy compared to static gating technology, delivering more reportable results with unnecessary flagging.

- › **Improve confidence in the accuracy of leukocyte differentials with proprietary dynamic-gating technology compared to a static gate**

Take advantage of sophisticated gating technology that improves the identification of cell populations by adjusting the thresholds between cell-cluster arrangements. The unique dynamic-gating technology in the DxH 520 analyzer provides multiple layers of adjustable gates. This is unlike the static or simple dynamic gates available in other technologies, which are insensitive to variation in population positions.

With Beckman Coulter's proprietary method, the gates move to better align with cutoffs between cell clusters in a series of steps (Figures 1a and 1b). Improvement is seen in challenging cell populations, such as lymphocytes and eosinophils, giving a more accurate leukocyte differential than static gating.

Figure 1a Static-gating Technique

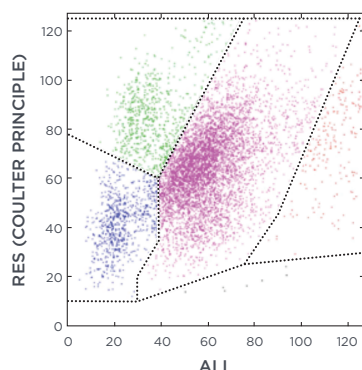
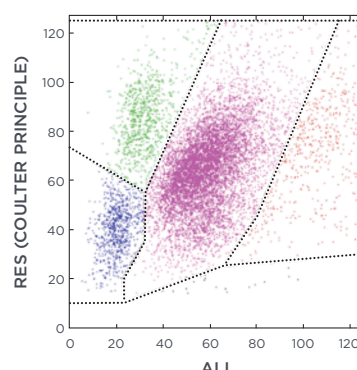


Figure 1b Dynamic-gating Technique



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› Reduce unnecessary flagging, compared to static-gating techniques

Clinical data of 756 samples compared static gating with Beckman Coulter DxH 520 dynamic-gating technology. Results showed a significant drop in the number of “R” flags.

Table 1: Flagging comparison of dynamic gating versus static gating ¹

Gating Technology	Total “R” Flags	% R
Static Gating	192	25.4%
Dynamic Gating	114	15.1%

DxH 520 analyzer specifications

	DxH 520	
Aspiration Volume μL	17 μ L 20 μ L in pre-dilute mode	
Throughput	55 samples/hour in closed tube sampling 60 samples/hour in open tube sampling	
Reportable Parameters	21 whole blood: WBC, NE#, NE%, LY#, LY%, MO#, MO%, EO#, EO%, BA# †, BA% †, RBC, Hgb, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CVt, PLT, MPV 6 RUO parameters: IMM%, IMM#, LHD, MAF, PCT, PDW	
Weight and Dimensions	Depth	Weight
	430 mm (16.9 in.)	11.4 kg (25.1 lbs.)

Learn how the DxH 520 analyzer maximizes productivity and reduces overhead costs.

Watch the video at www.beckmancoulter.com/DxH520

References

1. Flagging comparison of DxH 500 Series software version 1 with DxH 500 Series software version 2, Clinical studies results analysis.
2. Vieira A, Seidel A, Smit A et al. Clinical Predictive Value of the DxH 520—poster presentation. XXXIst International Symposium on Technical Innovations in Laboratory Hematology, Brussels, Belgium, May 10-12, 2018.
3. International Society for Laboratory Hematology guidelines for manual differential smear review.

* Software version 2

† Basophil count and percent values may be under reported, all numerical results reported for these parameters must be reflexed for manual microscopy OR followed up for additional testing based on the laboratory's SOP.

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