



Prochem PA-300

3-Part Hematology Analyzer



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PA-300 is a robust 3-part hematology analyzer integrating a range of advanced features intended for a cost minded and quality-focused clinical laboratory. The enhanced specification expands clinical capabilities; The brand new operating system simplifies the working process; The quality hardware components ensure reliable performance, and the improved fluidic system reduces reagent consumption. To pursuit higher satisfaction, H30 Pro empowers CBC test with maximum capabilities by

Offering up to 24 parameters including PLR and NLR

- Extending linearity range for WBC and PLT
- Differentiating WBC, RBC, and PLT with adaptive threshold
- Requiring small sample volume for pediatric samples and difficult draw
- Simplifying the working process with an intuitive operation system
- Lowering cost with two routine reagents



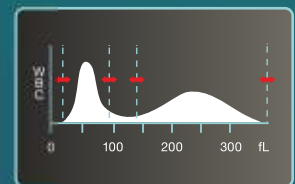
Intuitive operating system



Small sample volume



Offering NLR, PLR



Adaptive threshold

Expanded clinical capabilities

- Wider linearity range and better precision meet diversified clinical cases.
- 24-parameters test result, including NLR and PLR, helps with the prognosis of infectious and cardiovascular diseases.
- Adaptive threshold differentiates WBC, RBC, and PLT with better accuracy.
- Original hematology calibrator and controls guarantee the performance.



Simplified working process

- 10.4-inch color touch screen with an innovative operating system is simple-to-use and easy-to-navigate.
- A handheld barcode scanner allows easy entry of patient ID.
- RFID transducer secures the distributors' reagent business.
- A built-in thermal printer allows for a fast printout of test reports.
- The memory contains up to 100,000 results, including histograms.
- Up to 60 QC files with 100 QC data for each can be stored.
- Support external printer, barcode scanner, mouse, and keyboard for flexible connection options.
- Bidirectional LIS connectivity via HL7.



Effective cost control

- Two routine reagents for sample analysis, up to 120 days on-board stability plus low reagent consumption, provide cost-effective results.
- Reliable diagnostics keep costs to a minimum.
- Minimal maintenance ensures maximal uptime.

Technical Specifications

Performance	Specification & Features																		
Parameters	<p>24 reportable parameters: WBC, LYM%, MID%, GRA%, LYM#, MID#, GRA#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW-CV, PDW-SD, PCT, PLCC, PLCR</p> <p>2 RUO parameters: *NLR, *PLR</p> <p>3 histograms for WBC, RBC and PLT</p>																		
Principles	<ul style="list-style-type: none"> Direct impedance method for WBC, RBC and PLT counting. Cyanide free Lyse reagent for hemoglobin test. 																		
Sample Volume	Whole blood 10 µL, Capillary Whole Blood 10 µL, Pre-diluted 20 µL																		
Reagent	<p>HD310 Diluent 10L/20L</p> <p>HL310 Lyse 200mL/500mL/1L</p> <p>HC310 Cleaner 50mL</p>																		
Performance	<table border="1"> <thead> <tr> <th>Parameter</th> <th>Linearity Range</th> <th>Precision (CV %)</th> </tr> </thead> <tbody> <tr> <td>WBC($10^9/L$)</td> <td>0.0-300</td> <td>≤3.0% (3.50-7.00) ≤2.5% (7.01-15.00)</td> </tr> <tr> <td>RBC($10^{12}/L$)</td> <td>0.0-8.5</td> <td>≤1.5%</td> </tr> <tr> <td>HGB(g/L)</td> <td>0-250</td> <td>≤1.5%</td> </tr> <tr> <td>PLT($10^9/L$)</td> <td>0-4000</td> <td>≤5.0%</td> </tr> <tr> <td>MCV(fL)</td> <td>70-120</td> <td>≤1.0%</td> </tr> </tbody> </table>	Parameter	Linearity Range	Precision (CV %)	WBC($10^9/L$)	0.0-300	≤3.0% (3.50-7.00) ≤2.5% (7.01-15.00)	RBC($10^{12}/L$)	0.0-8.5	≤1.5%	HGB(g/L)	0-250	≤1.5%	PLT($10^9/L$)	0-4000	≤5.0%	MCV(fL)	70-120	≤1.0%
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Control and Calibrator	PA-30D, PA-CAL PLUS																		
Throughput	60 samples per hour																		
Data Storage Capacity	100, 000 results including results and histograms, 60 QC files (100 data per file)																		
Operating Environment	<p>Temperature : 15°C~35°C;</p> <p>Humidity : 20% RH~85% RH;</p> <p>Air pressure : 70 kPa~106 kPa</p>																		
Dimension and Weight	415mm(L) x 275mm(W) x 406mm(H); 18kg																		

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