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Abacus 5

5-PART LASER WBC
DIFFERENTIAL ANALYZER



ANALYZER OVERVIEW

The Abacus 5 system is a compact, bench top, 60 test/hour, 5-part WBC differential analyzer. It can be loaded with both open or closed tubes. The Abacus 5 can be enhanced to meet your changing needs by adding a 100 positions autoloader and/or a small sample volume module when low blood volume collection is required.

The Abacus 5 has a large color touch screen with an easy to follow and intuitive user interface. The Abacus 5 is the ideal solution for clinical laboratories looking for a reliable, safe, precise and easy-to-use instrument with the most advanced technology.

BENEFITS AND KEY FEATURES

ACCURATE AND PRECISE RESULTS

- Proven impedance measurement technology
- Patented optical laser based technology for WBC differential
- Clog detection and prevention with automatic system cleaning
- Advanced sample aspiration flagging checks

FIELD UPGRADEABLE OPTIONS

- Autosampler for walk-away capability
- Small Sample Module* for reduced sample volume requirement

USER FRIENDLY AND EASY TO OPERATE

- High resolution touch screen
- Recording sample and quality control information is fast and efficient
- Information can be uploaded from a USB, QR code or via a bi-directional LIS connection

OPERATOR SAFETY

- Cap piercing mode validated for several sample tube types e.g. Monovette, Vacutainer, Vacuette
- BD MAP tube can be used if small sample module fitted
- Self-cleaning minimizes daily maintenance
- Reduced risk of biohazard exposure

CONFIDENCE

- Simple warning messages and sample flags
- On-board comprehensive QC SW package
- Offers (3 levels) of user access rights / authority levels
- Automatically manages on-board reagent status and lot / expiration dates

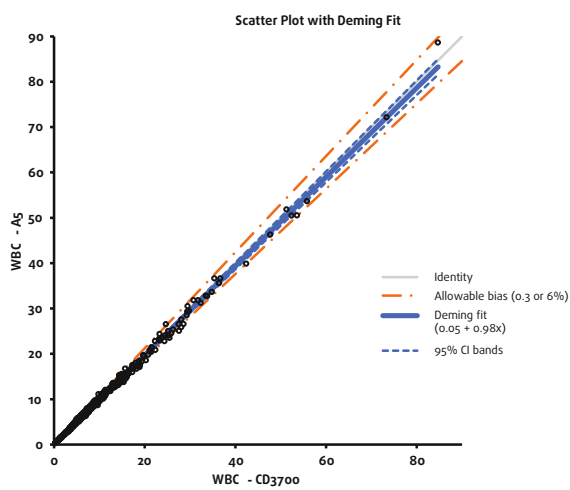
SPECIFICALLY MATCHED REAGENTS

- Designed to use specific Diatron reagents to deliver the highest quality results
- Maximum shelf life of 36 months with up to 120 day on-board stability

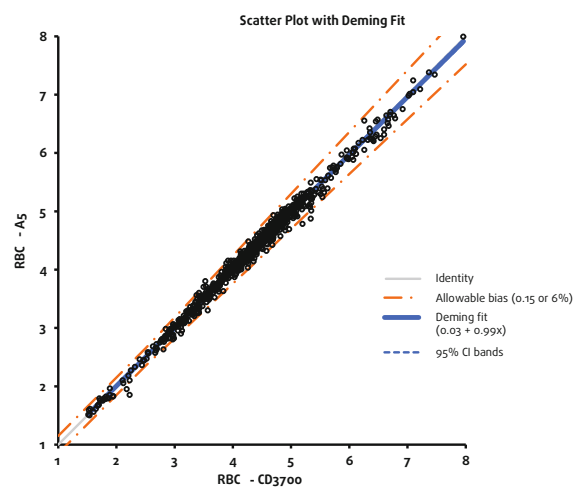
* Only available in non US markets

Abacus 5

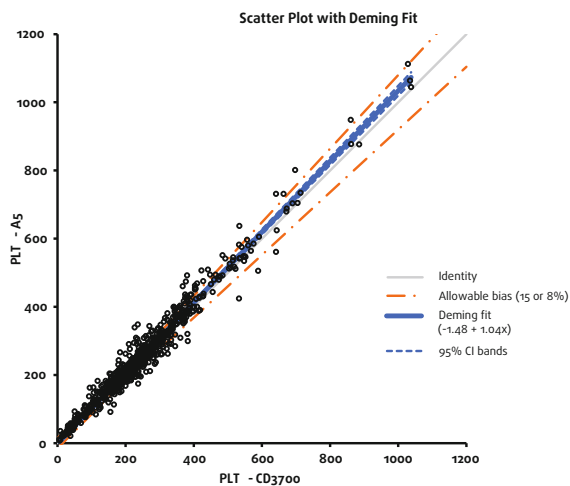
Comparative study data with leading commercial analyzer from three independent laboratories



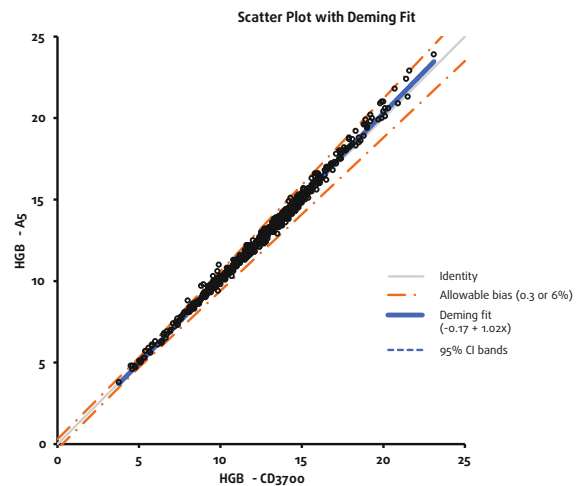
WBC



RBC



PLT



HGB

Additional clinical performance data is available in the A5 case history study.
Please ask your distributor or contact Diatron (www.diatron.com) for further information.

SPECIFICATIONS

MEASURING DATA

- Throughput: 60 tests/hour
- Parameters: CBC+5 DIFF mode, 2 histograms: RBC, PLT, 2 scattergrams: 4 diff, BASO, 26 parameters: WBC, LYM, MON, NEU, EOS, BAS, LYM%, MON%, NEU%, EOS%, BAS%, RBC, HCT, MCV, RDW-sd*, RDW-cv, HGB, MCH, MCHC, PLT, PCT*, MPV, PDW-sd*, PDW-cv*, P-LCC*, P-LCR*

MEASURING PRINCIPLE

- Laser light scatter technology
- Impedance method for CBC
- Light absorbance for HGB measurement

REAGENTS AND SAMPLING SYSTEM

Samples

- Sample volume: 110 µl of whole blood
- Closed and open tube sampling
- Calibration: automatic or manual
- Pre-dilute software option for small samples

Reagents

- Environmentally friendly Diluent and Cleaner reagents and cyanide-free Lyse

QUALITY CONTROL

- Separate QC database
- Levey-Jennings graphs

TECHNICAL FEATURES

- Multilevel user modes with individual identification
- Data storage capacity: 100,000 records
- Printout: External printers

USAGE

- User interface: LCD touch screen (10.4")
- Multilingual user interface English, French, Croatian, Hungarian, Italian, Polish, Russian, Turkish, Chinese, German, Greek, Argentine, Brazilian, Czech, Danish, Finnish, Indonesian, Japanese, Korean, Norwegian, Slovak, Swedish

DIMENSIONS

- Size (Width x Depth x Height)
40 cm x 50 cm x 45 cm
16" x 20" x 18"
- Weight: 35 kg, 77 lbs

OPTIONS

Autosampler

- Sample capacity: 100 tubes with continuous loading
- Acceptable primary tubes - Greiner, Monovette, Terumo, Vacuette, Vacutainer
- Built-in barcode reader and sample mixer
- Cap recognition
- Priority for Stat sample

Small sample module *

- Aspirated sample only 25 µl (standard 110 µl)

* Parameter/feature not available in the US

Analyzers and Upgrade kits

Cat. No	Description
A5-I	Abacus 5 with sample tube cap piercing
A5SSM-I	Abacus 5 with Small Sample Volume module
A5SSM01-Kit	Small Sample Volume module - Upgrade kit (for units post 4/13)
AS5-I	Autosampler module - Upgrade kit

Reagents for Abacus 5

Cat. No.	Product name	Volume
D1512	Diatro•Dil-5P	20 l
D3015HK	Diatro•Lyse-5P with Hardware Key	5 l
D3021	Diatro•Diff-5P	1 l
D8011	Diatro•Hypoclean CC	100 ml

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