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Abacus 3CT

3-PART WBC DIFFERENTIAL
ANALYZER



ANALYZER OVERVIEW

The Abacus 3CT system is a compact, bench top, 60 test/hour, 3-part WBC differential analyzer with two sampling modes: a cap piercing mode for closed tube sampling and another for open tubes. The Abacus 3CT has a large color touch

screen with an easy to follow, intuitive icon user interface. The system is an ideal solution for small laboratories, satellite clinics and doctors' offices that are looking for reliable, safe, accurate and easy to use instrumentation.

BENEFITS AND KEY FEATURES

ACCURATE AND PRECISE RESULTS

- Proven impedance measurement technology with advanced flagging algorithms
- Clog detection and prevention with automatic system cleaning processes
- Unique sample rotor

USER FRIENDLY AND EASY TO OPERATE

- A high resolution touch screen with easy to follow internationally recognized icons
- Recording of sample and quality control information is fast and efficient
- Information can be uploaded from a USB or QR code with barcode reader
- Transfer data using bi-directional LIS connection

OPERATOR SAFETY

- Cap piercing mode validated for multiple sample tube types e.g. Monovette, Vacutainer and Venosafe

- Reduced risk of biohazard exposure
- Self-cleaning procedures minimize daily maintenance

CONFIDENCE

- System uses easy to understand warning messages and sample flags
- Employs a comprehensive QC SW package
- Offers (4 levels) of user access rights / authority levels
- Automatically manages on-board reagent status and lot/expiration dates
- Designed to use specific Diatron reagents to deliver the highest quality results

Abacus 3CT

DIATRON REAGENTS

Our systems comprise of two perfectly matched elements: analyzers and reagents. The optimum performance of our analyzer systems is only achieved when our matched reagents are used. Our ISO 13485 certified reagent manufacturing plant is designed to ensure the highest quality standards. All lots of reagent we manufacture are fully validated prior to release on each of our associated instruments for low background

counts, osmolality, pH and other critical parameters. Our diluent reagents contain no azide and our lyse reagents are cyanide free. Our highly stable reagents offer a shelf life of up to 36 months from the date of manufacture and up to 120 days of onboard stability. The combination of Diatron reagents and Diatron analyzers together ensure the best system performance and quality of results.



SPECIFICATIONS

MEASURING DATA

- Throughput: 60 tests/hour
- Parameters: 22 including 3-part WBC differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, MCV, HCT, HGB, MCH, MCHC, PLT, MPV, RDW-SD, RDW-CV, PCT, PDW-SD, PDW-CV, P-LCR, P-LCC

MEASURING PRINCIPLE

- Volumetric impedance method
- Light absorbance for HGB measurement

REAGENTS AND SAMPLING SYSTEM

Samples

- Sample volume: 100 µl
- Optional software mode with open tube sampling: 25 µL volume
- Sampling method: Open and closed tubes
- Calibration: Manual or automatic
- Pre-dilution option

Reagents

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

QUALITY CONTROL

- 24 QC lots
- Levey-Jennings graphs
- USB and barcode option to load QC target values
- Capable to read QR codes for reference input data

TECHNICAL FEATURES

- Data storage capacity: 10,000 results
- Compatibility with many external printers
- Interfacing possibilities: USB, LAN (HL7)
- Optional external barcode reader
- Built-in thermal printer module, 58 mm wide roll paper, full report with histograms

USAGE

- Color touch screen operation
- Logical/intuitive user interface
- User language: English, German, Bulgarian, French, Greek, Indonesian, Polish, Portuguese, Romanian, Russian, Slovakian, Spanish, Turkish, Italian

DIMENSIONS

- Size (Width x Depth x Height):
32 cm x 49 cm x 36 cm
12" x 19" x 14"
- Weight: 18 kg, 39 lbs

Reagents for Abacus 3CT

SAP Cat. No	Cat. No.	Product name	Pack size
10023037	D1012	Diatro•Dil-Diff	20 l
10023114	D2011HK	Diatro•Lyse-Diff with Hardware Key	1 l
10023233	D5011	Diatro•Cleaner*	1 l

Cleaners for tube decontamination

SAP Cat. No	Cat. No.	Product name	Pack size
10023273	D6011	Diatro•Clenz*	1 l
10023287	D7011	Diatro•Hypoclean	1 l
10023301	D8011	Diatro•Hypoclean CC	100 ml

Analyzers

Description	Catalogue No	SAP Cat. No
Abacus 3CT analyzer (International markets)	A3CTC-I	10021802
Abacus 3CP (US market only)	A3CPC-I	10021777

* Other sizes of reagents are available:
Diatro•Cleaner 5 l 10023253 (D5015)
Diatro•Clenz 5 l 10023279 (D6015)

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Abacus 3CT is only available in non-US markets. A similar product called Abacus 3CP is currently cleared for sale in the USA. Diatron MI Zrt makes best efforts to provide accurate information and specifications herein, whereby it may be possible for omissions or errors to have occurred. Diatron MI Zrt shall have no liability for the accuracy and completeness of the information and cannot be held liable for any representations or warranties, expressed or implied, and any third party claims or losses of any damages. Diatron MI Zrt reserves the right to make any changes to the information, including specifications, without notice. The applications and products herein may not be available in all markets. ©2019, Diatron MI Zrt, Hungary, all rights reserved.

Version Nr.A3CT190528V8

