Abacus 5
5-PART LASER WBC DIFFERENTIAL ANALYZER
The Abacus 5 system is a compact, bench top, 60 test/hour, 5-part laser WBC differential analyzer with two sampling modes: a cap piercing mode for closed tube sampling and another for open tubes. The Abacus 5 can be enhanced to meet your changing needs by adding an autosampler and/or a small sample volume module. This system is an ideal solution for most hospitals, laboratories and satellite clinics that are looking for more advanced technology which is reliable, safe, accurate and easy to use.

ACCURATE AND PRECISE RESULTS

- Proven impedance measurement technology
- Patented optical laser based WBC differential technology
- 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
Comparative study data with leading commercial analyzer from three independent laboratories.

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, RBC, HCT, MCV, RDW-sd, RDW-cv, HGB, MCHC, MCH, PLT, PCT*, MPV, PDW-sd*, 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: Stat and Autosampler mode, specific control material (external reference – optional)
  - 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, Spanish, Croatian, Hungarian, Italian, Polish, Portuguese, Russian, Turkish, Chinese, German, Greek

**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
- Small sample module *
  - Aspirated sample only 25 μl (standard 110 μl)

* Parameter/feature not available in the US

---

**Analyzers and Upgrade kits**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalogue No</th>
<th>SAP Cat. No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abacus 5 with sample tube cap piercing</td>
<td>A5-1</td>
<td>10021849</td>
</tr>
<tr>
<td>Abacus 5 with Autosampler module</td>
<td>A5AS-1</td>
<td>10022017</td>
</tr>
<tr>
<td>Abacus 5 with Small Sample Volume module</td>
<td>A5SSM-1</td>
<td>10022045</td>
</tr>
<tr>
<td>Small Sample Volume module - Upgrade kit (for units pre 5/13)</td>
<td>A5SSM-Kit</td>
<td>10030744</td>
</tr>
<tr>
<td>Small Sample Volume module - Upgrade kit (for units post 4/13)</td>
<td>A5SSM01-Kit</td>
<td>10033068</td>
</tr>
<tr>
<td>Autosampler module - Upgrade kit</td>
<td>A5S-1</td>
<td>10022494</td>
</tr>
</tbody>
</table>

**Reagents for Abacus 5**

<table>
<thead>
<tr>
<th>Catalogue No</th>
<th>SAP Cat. No</th>
<th>Product name</th>
<th>Pack size</th>
</tr>
</thead>
<tbody>
<tr>
<td>10023088</td>
<td>D1512</td>
<td>Diatro•Dil-5P</td>
<td>20 l</td>
</tr>
<tr>
<td>10023190</td>
<td>D3015HK</td>
<td>Diatro•Lyse-5P with Hardware Key</td>
<td>5 l</td>
</tr>
<tr>
<td>10023204</td>
<td>D3021</td>
<td>Diatro•Diff-5P</td>
<td>1 l</td>
</tr>
<tr>
<td>10023301</td>
<td>D8011</td>
<td>Diatro•Hypoclean CC</td>
<td>100 ml</td>
</tr>
</tbody>
</table>

---

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.

We are a member of the STRATEC Group | www.diatron.com | sales@diatron.com

Abacus 5 is available for sale in all markets-US and non-US.

Version Nr. A5190528V9