Hemostasis Line

Semi to Fully Automated Clot Detection

- For low to medium volume laboratories
- Routine assay range from one source
- Validated application settings

TIC²+ Technology

CoreLab DX
Hemostat Systems
Huge in Performance, Compact in Size

Quality Made in Germany

Enhanced Reliability
› Sample level detection reduces the risk of sample-to-sample contamination
› Internal sample barcode reader
› Smart card technology ensures reliable results with HUMAN consumables and validated reagents

Stand-alone Operation
› Auto-calibration, auto-dilution, auto-repeat
› Heating reagent and sample pipettor unit for higher throughput
› Reagent level detection

Cost saving Operation
› Only one reaction cuvette per test
› Low consumption of wash solution
› Only three types of consumables: cuvettes, wash and cleaning solution

HumaClot Pro
Fully automated compact coagulation analyzer
15800

 › Up to 100 PT/h
 › Up to 58 t/h in mixed assay mode
 › HUMAN reagents preprogrammed
 › Integrated PC and touchscreen
 › Disposable cuvette ring for 32 incubations
 › Low consumption of liquid and cuvette consumables
 › 3 STAT and 22 sample positions

Consumables

<table>
<thead>
<tr>
<th>Item Description</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cuvette Rings 6 x 10 x 32 (1920 tests)</td>
<td>15800/10</td>
</tr>
<tr>
<td>Washing Solution (5 x 15 ml)</td>
<td>15800/20</td>
</tr>
<tr>
<td>Sample Cups 4 ml (2 x 250 pcs)</td>
<td>15800/25</td>
</tr>
<tr>
<td>Sample Cups 2 ml (500 pcs)</td>
<td>17470/59</td>
</tr>
<tr>
<td>Reagent Cups 1 ml (100 pcs)</td>
<td>15800/15</td>
</tr>
<tr>
<td>Cleaner (5 x 15 ml)</td>
<td>15800/30</td>
</tr>
<tr>
<td>Reagent Vials 5 ml with Caps (50 pcs)</td>
<td>15800/40</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Item Description</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inkjet Printer USB</td>
<td>15800/60</td>
</tr>
<tr>
<td>External 1D Barcode Scanner RS232*</td>
<td>15660/55*</td>
</tr>
<tr>
<td>Adapter Reagent Cup 1 ml (1 pc)</td>
<td>15800/53</td>
</tr>
<tr>
<td>Stirrer Bar for Reagent Mixing (10 pcs)</td>
<td>15800/50</td>
</tr>
</tbody>
</table>

*Adapter cable REF 15800/54 necessary
## Extended Family of Semi-automated Instruments

### One Concept – Three Instruments

- **HumaClot Quattro**
  - Manual 4-channel coagulation instrument
  - REF 15660
  - Simultaneous measurement of 4 samples
  - 16 sample incubation positions
  - 4 reagent incubation positions (1 stirred)
  - Built-in printer
  - Optional autopipette with electronically triggered start

- **HumaClot DuoPlus**
  - Manual 2-channel coagulation instrument
  - REF 15650
  - Simultaneous measurement of 2 samples
  - 18 sample incubation positions
  - 4 reagent incubation positions (1 stirred)
  - Built-in printer
  - Optional autopipette with electronically triggered start

- **HumaClot Junior**
  - Compact 1-channel coagulation instrument
  - REF 18680
  - Measurement of 1 sample
  - 4 sample incubation positions
  - 1 reagent incubation position

### Consumables

<table>
<thead>
<tr>
<th>Item Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cuvettes Dispo with Prefilled Mixer (5 x 100 pcs)</td>
<td>15660/10</td>
</tr>
<tr>
<td>Cuvettes Bag with Separate Mixer (1 x 500 pcs)</td>
<td>15660/11</td>
</tr>
<tr>
<td>Cuvettes Bag with Separate Mixer (5 x 500 pcs)</td>
<td>15660/12</td>
</tr>
<tr>
<td>Thermal Printer Paper, External Printer (5 pcs)</td>
<td>18144/5</td>
</tr>
<tr>
<td>Thermal Printer Paper, Internal Printer (5 pcs)</td>
<td>18909/20</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Item Description</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoHumaPette 20 μl - 200 μl</td>
<td>19130A</td>
</tr>
<tr>
<td>External 1D Barcode Scanner RS232</td>
<td>15660/55</td>
</tr>
<tr>
<td>Thermoprinter EU 230 VAC</td>
<td>15651/20</td>
</tr>
<tr>
<td>Thermoprinter US 120 VAC</td>
<td>15651/21</td>
</tr>
<tr>
<td>Thermoprinter JP 100 VAC</td>
<td>15651/22</td>
</tr>
</tbody>
</table>
Hemostat Reagents

Sensitive and Reliable

- Routine assay range from one source
- Dedicated calibrator and controls
- Validated for all HUMAN coagulation analyzers

Hemostat Thromboplastin liquid
Liquid reagent with high sensitivity for the determination of prothrombin time (PT). Due to its factor sensitivity it can be used to assay the activity of coagulation factors in the extrinsic and common pathway of coagulation (factors II, V, VII, and X).

- Liquid, ready-to-use reagent
- No preparation step needed, freeing up lab technician’s time for more important tasks

REF
Complete kit 6 x 2 ml 31012

Hemostat Thromboplastin-SI
Highly sensitive reagent for the determination of prothrombin time (PT) in lyophilized format. Due to its factor sensitivity it can be used to assay the activity of coagulation factors in the extrinsic and common pathway of coagulation (factors II, V, VII, and X).

- Lyophilized reagent
- Ready-to-use reconstitution medium included, thereby reducing the risk of errors during reconstitution

REF
Complete kit 6 x 2 ml 31002
Complete kit 6 x 10 ml 31003

Hemostat aPTT-EL
Determination of activated partial thromboplastin time (aPTT) in liquid format. Due to its factor sensitivity it can be used to assay the factor deficiency of coagulation factors in the intrinsic and common pathway of coagulation (VIII, IX, XI, and XII).

- Ready-to-use liquid reagent, thereby reducing the risk of errors during reconstitution and freeing up lab technicians’ time for more important tasks
- Superior factor sensitivity, sensitive to heparin and lupus anticoagulants

REF
Complete kit 6 x 4 ml 33002
aPTT reagent 6 x 4 ml 33012
aPTT reagent 6 x 10 ml 33013
CaCl₂ 4 x 30 ml 33022

Hemostat Fibrinogen
Determination of fibrinogen in plasma. It is used in the determination (Clauss method) of fibrinogen in the diagnosis, treatment monitoring and prognosis of various hemorrhagic disorders.

- Lyophilized reagent (long stability after reconstitution)
- Test based on the Clauss reference method

REF
Complete kit 32002
5 x 2 ml fibrinogen reagent, 1 x 100 ml buffer, 2 x 1 ml reference plasma
Hemostat Thrombin Time
Assay for use on manual or fully automated coagulation instruments. It is a routine test suitable for monitoring fibrinolytic therapy, screening for disorders of fibrin formation and to monitor heparin therapy.

- Lyophilized reagent
- Assay based on human thrombin

Complete kit 6 x 1 ml .................................................. 34002

Hemostat D-dimer
Microparticle enhanced immunoassay test for the quantitative determination of d-dimer in citrated human plasma with manual and automated coagulation analyzers.

- Ready-to-use liquid reagent
- Intravascular thrombosis formation is always accompanied by subsequent thrombolysis raising the level of D-dimer

Complete kit ................................................................. 36002

Hemostat Antithrombin liquid
Chromogenic assay for quantitative antithrombin in liquid format.

- Liquid and ready-to-use reagent
- Factor-Xa based assay
- No preparation step needed, freeing up lab technician’s time for more important tasks

Complete kit 4 x 3 ml .................................................. 36102

Calibrator
Hemostat Calibrator
Reliable exclusion of thrombosis.

- Calibration of tests to determine the prothrombin time (PT)
- Can be used on semi-automated and fully automated coagulation analyzers
- To generate a standardized curve where 100% = Coag. time of a Normal Plasma Pool
- Calibration to allow the determination of Antithrombin activity

REF
4 x 1 ml lyophilized human plasma pool for PT .................. 35500

Controls
Hemostat Control Plasma
Routine quality control for use with PT, aPTT, FIB, TT and AT.

- Lyophilized human plasma
- Convenient in use through freeze-thawing capability

Complete kit 6 x 1 ml control plasma normal ..................... 35001
6 x 1 ml control plasma abnormal ................................ 35002

Hemostat D-dimer Control High/Low
Routine quality control for use with d-dimer.

- Lyophilized human plasma
- Convenient in use through very long stability after opening

Lyophilized control plasma, 4 x 1 ml
2 vials “high”, 2 vials “low” ........................................... 35500
## Hemostat Systems

### Quality Made in Germany

<table>
<thead>
<tr>
<th></th>
<th>HumaClot Junior</th>
<th>HumaClot Duo Plus</th>
<th>HumaClot Quattro</th>
<th>HumaClot Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Semi-automated</td>
<td>Semi-automated</td>
<td>Semi-automated</td>
<td>Fully automated</td>
</tr>
<tr>
<td><strong>Channels</strong></td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td><strong>Wavelengths</strong></td>
<td>405 nm</td>
<td>405 nm</td>
<td>405 nm</td>
<td>405 nm, 570 nm, 740 nm</td>
</tr>
<tr>
<td><strong># of parameters</strong></td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>50</td>
</tr>
<tr>
<td><strong>Preinstalled HUMAN application settings</strong></td>
<td></td>
<td>Prothrombin Time (PT)</td>
<td>Activated partial thromboplastin time (aPTT)</td>
<td>Thrombin Time (TT)</td>
</tr>
<tr>
<td><strong>Sample incubation positions 37 °C</strong></td>
<td>6</td>
<td>18</td>
<td>16</td>
<td>32 incubation positions in one reaction ring</td>
</tr>
<tr>
<td><strong>Sample positions</strong></td>
<td>6</td>
<td>18</td>
<td>16</td>
<td>25 (22 + 3 STAT)</td>
</tr>
<tr>
<td><strong>Sample mixer in cuvette</strong></td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reagent positions</strong></td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>15 reagent positions 2 wash/clean solution</td>
</tr>
<tr>
<td><strong>Reagent stirring positions</strong></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>3 reagent positions with stirring capability</td>
</tr>
<tr>
<td><strong>Reagent prewarming</strong></td>
<td>Reagent position heated</td>
<td>Reagent position heated</td>
<td>Reagent position heated</td>
<td>Needle heating</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>2-9 points</td>
<td>2-9 points</td>
<td>2-9 points</td>
<td>Up to 7 points Incl. auto-dilution</td>
</tr>
<tr>
<td><strong>Auto-Pipette</strong></td>
<td>No</td>
<td>Optional</td>
<td>Optional</td>
<td>Automated pipetting</td>
</tr>
<tr>
<td><strong>Sample barcode ID reader</strong></td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Built-in</td>
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</tbody>
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