Hemostat Systems

Semi to Fully Automated Clot Detection

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

HEMOSTASIS
Maximum precision by sample mixing
Homogenization of reaction mix through stirring
Maximum assay measurement flexibility with clotting, chromogenic, immunologic & turbidimetric measurement

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
One reaction cuvette per test only
Low consumption of wash solution
Only three types of consumables: cuvettes, wash and cleaning solution

HumaClot Pro
Fully automated compact coagulation analyzer
REF: 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

- Cuvette Rings 6 x 10 x 32: 1920 tests 15800/10
- Washing Solution: 5 x 15 ml 15800/20
- Sample Cups 4 ml: 2 x 250 pcs 15800/25
- Sample Cups 2 ml: 500 pcs 17470/59
- Reagent Cups 1 ml: 100 pcs 15800/15
- Cleaner: 5 x 15 ml 15800/30
- Reagent Vials 5 ml with Caps: 50 pcs 15800/40
- Teflon Stirrer Bar: 10 pcs 15800/50

Accessories

- Inkjet Printer USB: 15800/60
- Adapter Reagent Cup 1 ml: 1 pc 15800/53
Extended Family of Semi-automated Instruments

One Concept – Three Instruments

- Tic⁺ technology
- Latest LED technology with reference channel
- HUMAN reagents preprogrammed
- Guided workflow
- Light protection cover with pipetting support
- Smart card technology ensures reliable results with HUMAN consumables and validated reagents
- Optional external sample barcode reader

Highly reliable, Maintenance-free

HumaClot Quattro
Manual 4-channel coagulation instrument

- 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 Duo Plus
Manual 2-channel coagulation instrument

- Simultaneous measurement of 2 samples
- 18 sample incubation positions
- 4 reagent incubation positions (1 stirred)
- Built-in printer
- Optional autopipette with electronically triggered start

Consumables

- Cuvettes Dispo with prefilled Mixer 5 x 100 pcs 15660/10
- Cuvettes Bag with Separate Mixer 1 x 500 pcs 15660/11
- Cuvettes Bag with Separate Mixer 5 x 500 pcs 15660/12
- Thermal Printer Paper, External Printer 5 pcs 18144/5
- Thermal Printer Paper, Internal Printer 5 pcs 18909/20

Accessories

- AutoHumaPette 20 μl - 200 μl* 19130A*
- Barcode Scanner - Mini DIN 15660/55
- Thermoprinter EU 230 VAC 15651/20
- Thermoprinter US 120 VAC 15651/21
- Thermoprinter JP 100 VAC 15651/22
- Printer Cable - Mini DIN (External Printer) 15660/53
- USB A-B Cable for Host Connection 15660/54
- Y-Cable (External Printer & Barcode Reader) 15660/56

*Only for HumaClot Duo Plus and Quattro
Hemostat Thromboplastin

Highly sensitive reagent intended for the determination of prothrombin time (PT) in liquid 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).

- Ready-to-use liquid 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
Calibrator and Controls

**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

**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

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

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

**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

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

- Lyophilized human plasma

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

- Lyophilized control plasma, 4 x 1 ml

**New**

**Hemostat**

Complete kit 6 x 1 ml

**REF**

Complete kit 6 x 1 ml

**REF**

Complete kit 4 x 3 ml

**REF**

4 x 1 ml lyophilized human plasma pool for PT

**REF**

6 x 1 ml control plasma normal

**REF**

6 x 1 ml control plasma abnormal

**REF**

Complete kit

**REF**

Complete kit

**REF**

Lyophilized control plasma, 4 x 1 ml

**REF**

Lyophilized control plasma, 4 x 1 ml

**REF**
## 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>
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<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Semi-automated</td>
<td>Semi-automated</td>
<td>Semi-automated</td>
<td>Fully automated</td>
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<tr>
<td><strong>Channels</strong></td>
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<td><strong>Wavelengths</strong></td>
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<td>405 nm</td>
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<td><strong>Preinstalled</strong></td>
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<td><strong>HUMAN application</strong></td>
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<tr>
<td><strong>settings</strong></td>
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<tr>
<td></td>
<td>Prothrombin Time (PT)</td>
<td>Activated partial thromboplastin time (aPTT)</td>
<td>Thrombin Time (TT)</td>
<td>D-Dimer (DD)</td>
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<tr>
<td></td>
<td>Fibrinogen (FIB)</td>
<td>Antithrombin (AT)</td>
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<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>
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<tr>
<td><strong>Sample positions</strong></td>
<td>6</td>
<td>18</td>
<td>16</td>
<td>25 (22 + 3 STAT)</td>
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<td><strong>Sample mixer</strong></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><strong>Reagent positions</strong></td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>15 reagents 2 wash/clean solution</td>
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<td><strong>Reagent stirring bar</strong></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>3 reagent positions</td>
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<tr>
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<td>1 reagent position left</td>
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<tr>
<td><strong>Reagent prewarmed</strong></td>
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<td>Reagent position heated</td>
<td>Reagent position heated</td>
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<td><strong>Calibration</strong></td>
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<td>2-9 points</td>
<td>2-9 points</td>
<td>Up to 7 points Incl. auto-dilution</td>
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<tr>
<td><strong>Autopipette</strong></td>
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<td>Optional</td>
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<td><strong>Sample barcode (Sample ID)</strong></td>
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<td><strong>Closed consumables</strong></td>
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