

Hemostat Systems

Semi to Fully Automated Clot Detection

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

CoreLab DX

HEMOSTASIS



Human

Diagnostics Worldwide

Hemostat Systems

Huge in Performance, Compact in Size

Quality Made in Germany



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



HumaClot Pro



Movie

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

		REF
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

		REF
Inkjet Printer USB		15800/60
Adapter Reagent Cup 1 ml	1 pc	15800/53

Extended Family of Semi-automated Instruments

One Concept – Three Instruments

- > TIC²+ 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

New



HumaClot Quattro

REF

Manual 4-channel coagulation instrument 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

New - Family Design



HumaClot Duo Plus

REF

Manual 2-channel coagulation instrument 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

REF

Compact 1-channel coagulation instrument 18680

- > Measurement of 1 sample
- > 4 sample incubation positions
- > 1 reagent incubation position

Consumables

REF

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

REF

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 Cabel - 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 Reagents

Sensitive and Reliable

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



HEMOSTAT THROMBOPLASTIN^{liquid}

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
CaCl ₂ 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 REF
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 REF
36002

New 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

Complete kit 4 x 3 ml REF
36102

Calibrator and Controls



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

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

HEMOSTAT Control Plasma

Routine quality control for use with PT, aPTT, FIB and TT.

- > Lyophilized human plasma

6 x 1 ml control plasma normal REF
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

Lyophilized control plasma, 4 x 1 ml REF
2 vials "high", 2 vials "low" 35500

Hemostat Systems

Quality Made in Germany



	HumaClot Junior	HumaClot Duo Plus	HumaClot Quattro	HumaClot Pro
Type	Semi-automated	Semi-automated	Semi-automated	Fully automated
Channels	1	2	4	2
Wavelengths	405 nm	405 nm	405 nm	405 nm, 570 nm, 740 nm
# of parameters	15	15	15	50
Preinstalled HUMAN application settings	Prothrombin Time (PT) Activated partial thromboplastin time (aPTT) Thrombin Time (TT) Fibrinogen (FIB) D-Dimer (DD) Antithrombin (AT)			
Sample incubation positions 37 °C	6	18	16	32 incubation positions in one reaction ring
Sample positions	6	18	16	25 (22 + 3 STAT)
Sample mixer	Yes			
Reagent positions	1	4	4	15 reagents 2 wash/clean solution
Reagent stirring bar	No	Yes 1 reagent position left	Yes 1 reagent position left	3 reagent positions
Reagent prewarmed	Reagent position heated	Reagent position heated	Reagent position heated	Needle heating
Calibration	2-9 points	2-9 points	2-9 points	Up to 7 points Incl. auto-dilution
Autopipette	No	Optional	Optional	Pipetting unit included (automated)
Sample barcode (Sample ID)	Optional	Optional	Optional	Built-in
Closed consumables	Yes by smart card			

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