COMPREHENSIVE MONITORING OF HEMOSTASIS

ClotPro supports the management of acute blood coagulation disorders to facilitate the selection of the most appropriate therapy and stop bleeding.

The benefits of viscoelastic coagulation monitoring have been described in many fields of surgery and intensive care: Cardiac and vascular surgery, organ transplantation, trauma, obstetrics, orthopaedic surgery and intensive care.

Guideline support for use of viscoelastic testing (examples):


ClotPro is powerful
- Most comprehensive options for the differentiation of whole blood coagulation
- Excellent correlation with conventional viscoelastometry

ClotPro is efficient
- Perform (and pay) only the assays you require
- Parallel testing of multiple samples
- Best in class throughput (6 channels)
- Very fast (< 3 min for first results (CT))

ClotPro is user-friendly
- Active tip technology eliminates the need for reagent handling
- Intuitive user interface
- LIS / HIS connectivity
- Remote viewing of test results
- Transfer of test results via email

Specifications

- Test channels: 6
- Tests: EX-test, IN-test, FIB-test, AP-test, HI-test, RVV-test, ECA-test, TPA-test, NA-test
- Dimensions (instrument): 48cm x 20cm x 8cm (WxDxH)
- Sample volume: 340 µl citrated blood per test

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THE SMART CHOICE FOR VISCOELASTIC TESTING

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+++ targeted management of coagulopathy +++

+++ rapid monitoring of hemostasis +++ smart and efficient +++

+++ powerful +++ efficient +++ user-friendly +++

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ACTIVE-TIP TECHNOLOGY:
The pipette-tip contains test specific dry reagents. All reagent handling is eliminated.

Liquid reagent handling for viscoelastometry requires pipetting of small reagent volumes, which is challenging in acute situations. The ClotPro® active-tip technology eliminates all reagent handling without requiring to run fixed 4-channel test panels.

The diagnostic proficiency of viscoelastometry has been significantly enhanced by the development of three innovative assays designed to reflect advances in therapeutics.

- **RVV-test** uses a direct activation of FXa with a high sensitivity to direct oral anticoagulants and other thrombin antagonists.
- **ECA-test** uses a direct activation of thrombin, with a high sensitivity and specificity for thrombin antagonists. This allows for the efficient detection and differentiation of antagonists to FXa and thrombin.
- **TPA-test** uses an activation by recombinant tissue factor and a standardised stimulation of fibrinolysis with recombinant t-PA.

The reagents for each assay are present in dry form in a sponge in the pipette tip (A). During pipetting of the patient sample the reagent is automatically added to the blood (B) – simple and safe.

**NEW GENERATION VISCOELASTOMETRY**

Conventional viscoelastometry: Rotation of pin using an elastic element

ClotPro® principle:

- Rotation of pin using an elastic element → creating a compact device
- High sensitivity capacitive signal detection → for improved precision
- Test-bearing optimized guiding system → robust and durable

ClotPro uses Elastic Motion Thrombelastography, an improved next-generation viscoelastometry technique. It uses the established cup and pin methodology. In both systems the cup and pin surfaces experience a relative movement, driven by an elastic element. In the ClotPro analyzer the Cup is rotated and the Pin is stationary to facilitate a compact and easy-to-use instrument design. Excellent precision and robust detection within the ClotPro system is facilitated by innovative design such as twin bearing guidance and novel cup rotation.

NEW GENERATION VISCOELASTOMETRY

Conventional viscoelastometry:

- Rotation of pin using an elastic element
- Detection of functional fibrinogen under dual platelet inhibition
- Inhibition of fibrinolysis facilitating the detection of fibrinolytic activity (in combination with EX-test)
- Intrinsic screening test, sensitive to heparin and coagulation factors e.g. FVII, FVIII
- Pit test with heparin neutralisation to ascertain residual coagulation activity
- Activation of Thrombin for the detection of anti-thrombin therapies
- Screening test for DOACs (e.g. rivaroxaban)
- Screening specific for direct thrombin antagonists

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A USER FRIENDLY 6 CHANNEL INSTRUMENT

- **Touch screen, barcode scanner, keyboard and mouse provide options for user input**
- **Expression of results using the established thrombelastometry parameters**
- **6 independent channels for increased throughput and flexibility**

ClotPro allows analysis of up to 6 assays simultaneously in any test combination. Tests can be repeated after therapeutic interventions as required and the diagnostic workup can be developed step by step. Efficient and easy to use.
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---

NEW GENERATION VISCOELASTOMETRY

Conventional viscoelastometry: Rotation of pin using an elastic element Detection of functional fibrinogen under dual platelet inhibition

ClotPro® principle: Rotation of cup using an elastic element   ➞ creating a compact device

High-sensitivity capacitive signal detection ➞ for improved precision

Testing bearing optimized guiding system ➞ robust and durable

ClotPro uses Elastic Motion Thrombelastography, an improved new generation viscoelastometry technique. It uses the established cup and pin methodology.

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Touch screen, barcode scanner, keyboard and mouse provide options for user input.

6 independent channels for increased throughput and flexibility

Expression of results using the established thrombelastometry parameters.

---

+++ compact 6 channel device +++ best in class throughput and flexibility +++

---

+++ no reagent handling +++ easy to use and flexible +++

---
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**RESULTS**

**Table:**

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<thead>
<tr>
<th>Assay</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-test</td>
<td>Rapid overview of the coagulation process</td>
</tr>
<tr>
<td>FIB test</td>
<td>Detection of functional fibrinogen under dual platelet inhibition</td>
</tr>
<tr>
<td>AP-test</td>
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- **6 independent channels for increased throughput and flexibility**
- **CT, CFT, MCF, ML, A5, A10**

---

ClotPro allows analysis of up to 6 assays simultaneously in any test combination. Tests can be repeated after therapeutic interventions as required and the diagnostic workup can be developed step by step. Efficient and easy to use.

---

Coagulopathies occur in different clinical settings, and require a personalised diagnostic workup.

Systems locked in to 4 tests can incur wastage and miss crucial information.

---

+++ compact 6 channel device +++ best in class throughput and flexibility +++

---

---

+++ high sensitivity +++ robust and durable +++

---

---

+++ no reagent handling +++ easy to use and flexible +++
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+++ targeted management of coagulopathy +++

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Specifications

| Test channels | 6 |
| Tests | EX-test, EX-test, FIB-test, AP-test, HI-test, RVV-test, ECA-test, TRA-test, NA-test |
| Dimensions | 48cm x 20cm x 8cm (instrument) |
| Sample volume | 340 µl citrated blood per test |

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