Proven technology.
Fully automated.

Combining innovation with experience, ROTEM sigma provides rapid Hemostasis information in critical patient care situations.
Proven technology
Fully automated

ROTEM sigma Hemostasis analyzer combines automated functionality with proven ROTEM technology

Closed, easy-to-use system
- Fully automated—no pipetting and test preparation (Figure 1)
- Sample tube fits directly into cartridge, avoiding blood handling (Figure 2)
- Simple cartridge system minimizes operator involvement
- Automated functionality checks before every measurement
- Provides results with prevailing reference ranges
- Large integrated touchscreen allows easy viewing of results
- Cartridges stored at room temperature
- Existing algorithms, recommendations, guidelines and literature are applicable

![Figure 1](image1)
![Figure 2](image2)

Proven ROTEM thromboelastometry technology provides coagulation status overview within 10 minutes

The ROTEM sigma analyzer measures kinetic changes in the clot elasticity of whole blood samples. Through measurement of clot status parameters, quantitative and qualitative assessment is offered. A comprehensive set of assays allows differential diagnosis.

Analysis, performed at the point of care, provides essential information about hyperfibrinolysis, dilutional coagulopathies, substitution of fibrinogen, factors or platelet substitution, as well as heparin or protamine dosage control.
ROTEM sigma cartridges

Rapid, accurate test results when time is crucial

ROTEM sigma cartridges
• Detect factor deficiency
• Discriminate between thrombocytopenia and fibrinogen deficiency or fibrin polymerization disorders
• Detect hyperfibrinolysis
• Detect direct FX inhibitors and direct thrombin (FIIa) inhibitor effects

The ROTEM sigma cartridge portfolio contains five tests offered in two test combinations: ROTEM sigma complete and ROTEM sigma complete + hep.

<table>
<thead>
<tr>
<th>Tests</th>
<th>INTEM C</th>
<th>EXTEM C</th>
<th>FIBTEM C</th>
<th>APTEM C</th>
<th>HEPTEM C</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Fast assessment of clot formation, fibrin polymerization and fibrinolysis via the intrinsic pathway</td>
<td>Fast assessment of clot formation, fibrin polymerisation and fibrinolysis via the extrinsic pathway</td>
<td>Fast analysis without platelets; qualitative assessment of fibrinogen status</td>
<td>In-vitro fibrinolysis inhibition; assessment of the possible effect of antifibrinolytic drugs</td>
<td>Specific detection of heparin when compared with INTEM C via heparin neutralisation</td>
</tr>
</tbody>
</table>

ROTEM sigma complete
- Rotem sigma C
- EXTEM C
- INTEM C
- APTEM C

ROTEM sigma complete + hep
- Rotem sigma C
- EXTEM C
- INTEM C
- HEPTEM C

• Discriminates between hyperfibrinolysis and platelet mediated clot retraction/FXIII deficiency
• Provides in vitro assessment of antifibrinolytic drug effect
• Particularly suitable for patients where a diagnosis of fibrinolysis is needed

• Detects heparin and heparin-like substances
• Discriminates between factor deficiency and heparin effect
• Recommended for patients with:
  - Therapeutic heparin effect (e.g., in cardiac and vascular surgery, intensive care patients)
  - Endogenous heparin effect (e.g., in liver transplantations, liver cirrhosis, infections or sepsis)

The extrinsic-based tests (FIBTEM C, EXTEM C and APTEM C) in the ROTEM sigma cartridges neutralise heparin in up to 5 IU/ml of whole blood.
Rapid and accurate test results

The ROTEM sigma analyzer combines innovation with experience
- Proven technology
- Fully automatized
- Simple and safe handling