

NEW !



technoclone  
TC

## CEVERON<sup>®</sup> 100 series

First fully automated coagulation analyzer series for all your hemostasis research needs: clotting, chromogenic, turbidimetric assays, with optional thrombin generation and fluorescent quenching technologies (FXIII & ADAMTS13 activity)




*An explosion of possibilities !*



# The evolution of fully automated testing continues

**The first fully automated instrument series where you can combine classic hemostasis research with Thrombin Generation, Factor XIII activity, and ADAMTS13 activity**

Simultaneously utilize up to 5 different technologies in your automated coagulation research—clotting chromogenic, turbidimetric, thrombin generation, and fluorescent quenching

	Clotting	Chromogenic	Turbidimetric	Thrombin Generation	FXIII activity	ADAMTS13 activity
ceveron <sup>®</sup> c 1 0 0 	✓	✓	✓			
ceveron <sup>®</sup> t 1 0 0 	✓	✓	✓	✓		
ceveron <sup>®</sup> s 1 0 0 	✓	✓	✓	✓	✓	✓



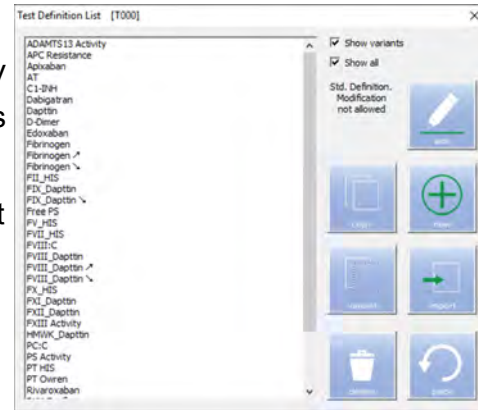
**ADAMTS13**  
**FXIII activity**  
**Thrombin Generation**  
 chromogenic assays  
 turbidimetric assays  
 clotting assays

## High precision and flexibility

Rerun and reflex testing in combination with very low CV in routine and specialty testing guarantees secure results for enhanced precision.

Having a minimal sample and reagent dead volume, adult and child samples can be run without any differentiation.

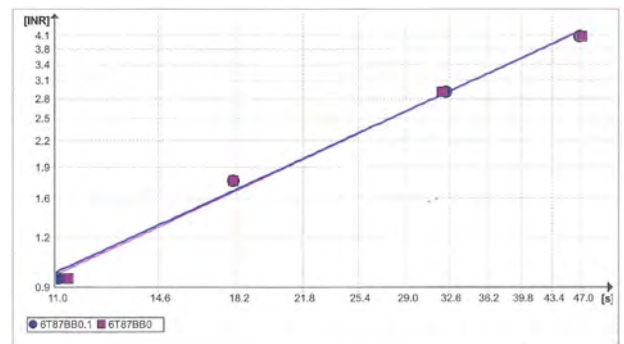
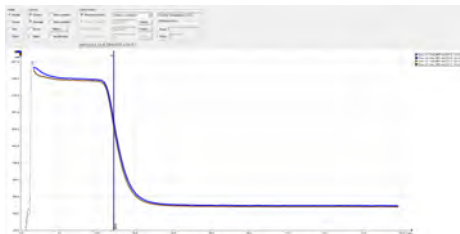
Due to the work-flow of the Ceveron® 100 series, an exact incubation time on each measurement is guaranteed.



Fibrinogen ↗  
Fibrinogen ↘  
Fibrinogen ↘

## Comparison of reaction curves (samples, QC and calibration curves)

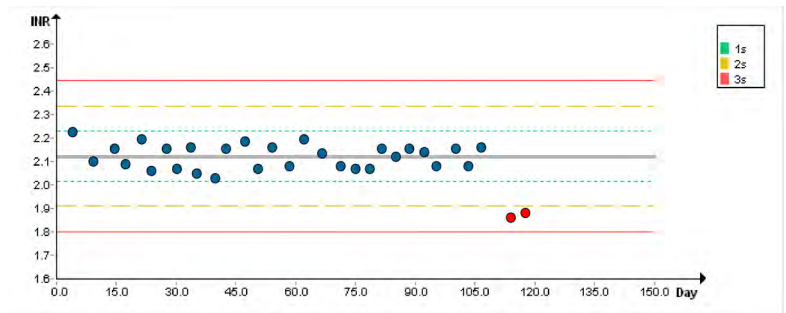
Easy access to all raw data, help comparing sample results, QC results, and calibration curves.



## Complete QC Testing

- Westgard rules
- Laboratory specific confidence range
- 3s range
- Lifetime of validation adjustable

Using values made available by Technoclone, via batch tables, local established results, or pre-period results of new QC lots.



## Fast, accurate and minimized maintenance time

With a throughput of 75 PT/hour, a TGA result in under 20 minutes and an ADAMTS13 activity result within 25 minutes, Ceveron® 100 series instruments are the perfect solution for fast and precise sample data collection.

Ceveron® 100 series is ready to use within 5 minutes after switching on the instrument. No daily maintenance needed and just 15 minutes once per week.

## High traceability

Sample and reagent handling is fully traceable with no difference for barcoded, non barcoded, sample, or reagent handling.

All used reagent lots, for every measurement can be sent to LIS.

Actual temperatures during the pipetting, incubation and reaction of each sample are shown, and stored on Ceveron® 100 series systems.



## System and result security

Three security levels ensure that just qualified users can run samples, perform calibrations, or change settings.

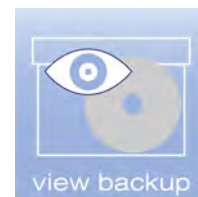
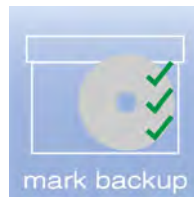
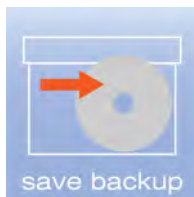
On each security level additional administrator rights can be set.

Due to the unlimited sample result storage, no QC or sample result can be lost due to limited storage capacity.

All results are stored on the Ceveron®, until they are deleted manually.

Automatic or manual backup including raw data and system status.

The integrated logbook tracks all actions created by the instrument, a user, or service technician.



## Host connection

All Ceveron® 100 series instruments are equipped with Windows 10 and use ASTM 1394 bidirectional host connection.

Obviously the Ceveron® instruments can also operate in offline mode as easily as when connected to an LIS.
















# New intuitive icon based software


No matter which Ceveron® 100 series instrument chosen, you are using the same intuitive icon based, touch screen optimized software.


Operating the Ceveron® 100 series instruments is even more simplified.



With our colour coded Ceveron symbol, the actual system status can be spotted at the first glimpse.




With just one click you can place samples, mark them as  Then  the reagents or just  their actual status. After  your cuvettes, just  your sample testing. Meanwhile you can check your  results or  your last calibration curves. After receiving the test results you can compare your, ,  the results manually or automatically to your LIS, or  them. If you have new lots of QC material, you can use the  or enter the target values manually. When performing a new calibration, after  you are  to run your samples. If you have written your own tests, you can easily  them to a second or third  instrument.

All sample, control, and calibration results will be stored on the Ceveron until you  and  them.

All steps are as easy as above for Quenching and  parameters.

Occasionally you have to  your system solution. Once a week you have to perform some  which claims 15 minutes of your valuable time.

Although we really appreciate all our Ceveron users, you will have a  visit just once per year.

Needless to say, we can also keep in  using  connection, if you need further

assistance, working with your new  instruments.

**Your instrument of choice for classical hemostasis, routine, and specialty testing.  
No matter if your focus is on the routine or on complex research projects.**

Whether running samples in a routine setting or in deeply specialized research project the new Ceveron® c100 is the perfect addition to your lab. We at Technoclone managed to improve the ease of use of this fast, robust, and precise instrument with our new, touch screen optimized software.

In combination with our high quality and long on board stable Technoclone reagents, you can now achieve even better performance in a minimal time-frame.

With no more space needed than our first generation Ceveron® alpha, we have refined our Ceveron® 100 series platform into the perfect solution for your hemostasis specialty testing, without losing focus on routine assays.

chromogenic assays

turbidimetric assays

clotting assays



# CEVERON<sup>®</sup> c100

Testing classical clotting, chromogenic, and turbidimetric parameters without limitation.

## The perfect solution for research analytics

- Easy operating with the new touch screen optimized software
- High capacity result storage including used reagent lots and raw data
- Easy export of result and raw data files
- Open system with simple test application programming

## Unique robustness and precision

- Very low CV in combination with Technoclone reagents
- High quality LED optics detect even smallest reaction changes in the cuvette
- Temperature monitoring of each individual measurement

## Secure and highly traceable

- Different password protected security levels
- All activities of the Ceveron<sup>®</sup> c100 are tracked and stored in the audit trail
- Remote service access opportunity

- Global Tests PT, PT Owren, aPTT, Fibrinogen, Thrombin time
- Anticoagulant Management Apixaban, Argatroban, Arixtra, Dabigatran, Edoxaban, Orgaran, Rivaroxaban and Heparins
- Coagulopathy Factor Assays (incl. Fitzgerald Trait and Fletcher Trait Plasma) FVIII Inhibitor, FVIII:C
- Thrombophilia Protein C, Protein S, AT, APC, C1 INH, Lupus
- Thrombosis D-Dimer

Product	Description	REF	Package
Ceveron <sup>®</sup> c100	Fully automated coagulation analyzer for <b>clotting, chromogenic,</b> and <b>turbidimetric assays</b>	9822010	1 pc.



**Your instrument of choice, if you want to run fully automated TGA testing and all other classical hemostasis assays at the same time, on the same instrument.**

With more than 15 years of thrombin generation testing experience having launched the first fully automated TGA instrument in 2007, we at Technoclone have improved the unique combination of classical hemostasis research with the fully automated TGA measurement in our new Ceveron® t100.

Without switching the instrument, or the sample, you can run a TGA as simply as a PT in less than 25 minutes.

With no more space needed than our first generation Ceveron® alpha, we have refined our Ceveron® 100 series platform into the perfect solution for your hemostasis specialty testing, without losing focus on routine assays.

**Thrombin Generation**  
chromogenic assays  
turbidimetric assays  
clotting assays





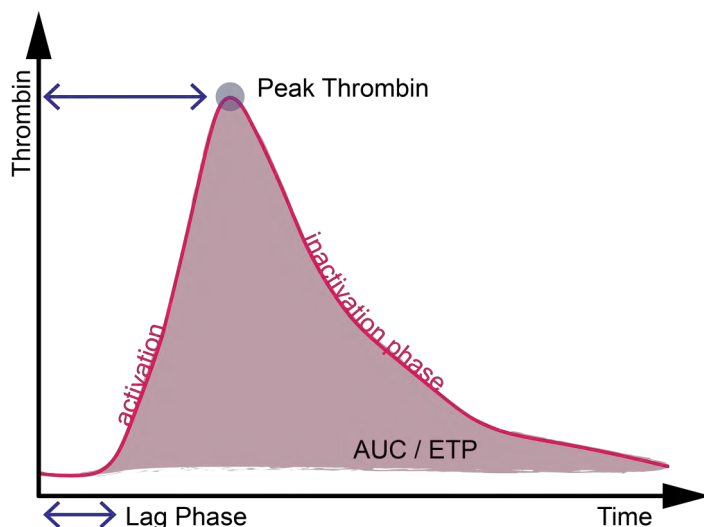
# TGA Module

Analyzing TGA samples in routine laboratory conditions was never as easy as now.

In contrast to an end point result which is analyzed when running classical screening tests like PT or aPTT, thrombin generation assays monitor the formation and inactivation of thrombin during the whole coagulation cascade. The TGA module measures the fluorescence generated by the cleavage of a substrate by thrombin over time after initiation of the coagulation process.

## Benefits of Ceveron® t100:

- 36 Samples per run
- Automated normalization
- As easy as a routine assays
- Fast and accurate: inter and intra assay cv below 5%
- Short assay time of ~20 min for Peak Thrombin
- Monitoring of each sample during measurement
- Fully automated lot stable calibration curve



**Results** are **automatically calculated** and displayed both in **absolute and normalized** units:

- Lag time (Lag)
- Time to peak (tPeak)
- Peak thrombin (Peak)
- Velocity index (VI)
- Area under the curve (AUC)

## Available parameters:

- **Ceveron TGA RB Kit** - For researching bleeding tendencies
- **Ceveron TGA RC Low Kit** - For researching thrombophilic tendencies
- **Ceveron TGA RC High Kit** - For researching anticoagulated samples

Product	Description	REF	Package
Ceveron® t100	Fully automated coagulation analyzer for <b>clotting, chromogenic, turbidimetric</b> , assays and <b>TGA</b> .	9822110	1 pc.



**The first fully automated hemostasis analyzer for measuring classical hemostasis parameters, thrombin generation, Factor XIII activity, and ADAMTS13 activity at the same time on one instrument.**

15 years ago Technoclone launched the first ADAMTS13 test kit. With adding the Quenching module to our Ceveron® instrument platform, Technoclone's innovation now advances to run fully automated ADAMTS13 activity as simply as a PT on the new Ceveron® s100.

Without switching the instrument, or the test sample, you can receive an ADAMTS13 activity result in under 30 minutes.

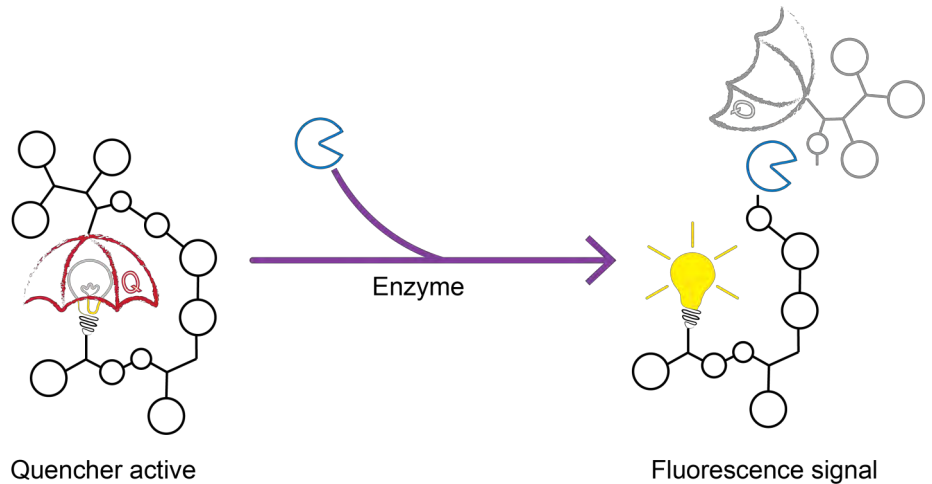
With no more space needed than our first generation Ceveron® alpha, we have refined our Ceveron® 100 series platform into the perfect solution for your hemostasis specialty testing, without losing focus on routine assays.



# Quenching Module

**Quenching technology** is based on high sensitive fluorescence measuring.

Different ways of quenching methods, like dynamic quenching such as Förster resonance energy transfer (FRET) or static quenching, can be used.



## Currently available parameters using the Quenching module:

- In the **TECHNOFLUOR Factor XIII Activity** test the quenching method employs a molecule that is bound to a peptide which is cleaved by FXIIIa. Subsequently, the fluorescence of this quenching molecule increases and can be monitored by the Ceveron® s100 Quenching module.
- The **TECHNOFLUOR ADAMTS13 Activity** test uses FRET technology. In the absence of ADAMTS-13 activity, the donor fluorophore transfers its energy to the quenching molecule, preventing signal detection. Measured fluorescence signal is proportional to the amount of vWF cleaved by ADAMTS13.

## Time and cost saving

- Available 24/7, saving valuable time, plasma, and financial resources

## Easy

- Running a Factor XIII activity or ADAMTS13 activity sample is as easy as running a routine coagulation sample

## Fast

- Fully automated ADAMTS13 activity result in less than 30 minutes.
- Quenching module parameters can be run in parallel to all other parameters including TGA.
- STAT samples processing is also available using the Quenching module
- Lot stable calibration curves with high linearity

Product	Description	REF	Package
Ceveron® s100	Fully automated coagulation analyzer for <b>clotting, chromogenic, turbidimetric</b> assays, <b>TGA</b> and <b>quenching</b> assays.	9822210	1 pc.



# CEVERON<sup>®</sup> 100 series SPECIFICATIONS

Test Menu	Clotting, chromogenic, turbidimetric assays TGA Module*, Quenching Module*
Optics	4 channels with 4 wavelengths each wavelengths: 405, 540, 630, 740 nm 4 channels TGA Module* 4 channels Quenching Module*
Samples on board	36 (24 primary tubes +12 sample cups)
Reagents on board	32 14 (12-18 °C), 10 (RT), 8 buffers and diluents
Cuvettes on board	84
Tests per sample	36
Sample volume	5 - 400 µL
Reagent volume	5 - 400 µL
Throughput	75 PT/h
STAT	Yes, up to 8 samples
Quality control	Integrated, user defined QC limits,
Sample data storage	unlimited
Operating system	Windows <sup>®</sup> 10
Dimensions (analyzer)	750 mm x 675 mm x 420 mm (w x d x h)
Weight	40 kg

Sample barcode reader	✓
Reagent barcode reader	✓
Sample and reagent level sensor	✓
Continuous operation	✓
Sample predilution	✓
Calibration curve predilution	✓
Reaction curve availability	✓
Security system	✓
Primary and secondary vials	✓
Bi-directional interface	✓
Host query function	✓
Events log system	✓
Rerun and reflex testing	✓
User defined tests	✓

\* depending on instrument

Product	Description	REF	Package
<b>Ceveron<sup>®</sup> c100</b>	Fully automated coagulation analyzer for <b>clotting, chromogenic, and turbidimetric assays</b>	9822010	1 pc.
<b>Ceveron<sup>®</sup> t100</b>	Fully automated coagulation analyzer for <b>clotting, chromogenic, turbidimetric, and fluorogenic assays (TGA Module)</b>	9822110	1 pc.
<b>Ceveron<sup>®</sup> s100</b>	Fully automated coagulation analyzer for <b>clotting, chromogenic, turbidimetric, fluorogenic, and quenching assays (TGA and Quenching Module)</b>	9822210	1 pc.

All products are for research use only in the US and Canada

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