Cascade M-4

Cascade M-4 is a manual hemostasis analyzer that is ideal for all routine clotting assays - PTs, aPTTs, thrombins, fibrinogens and factor assays. Operation is simple and economical, with only a 15” x 15” footprint.

Easy-to-Use Keypad, On-Screen Prompts – All tests are clearly enumerated on the keypad for fast, easy test selection. Computer prompts conveniently step the user through testing.

State-of-the-Art Photo Optics – Four independent photo-optic detection sources allow samples to be read in duplicate or in single.

On-board Quality Control – Cascade M-4 stores standard curves, calculates patient results, INRs and aPTT ratios as well as calculating mean, SD and CV, plus plotting and printing Levy-Jennings QC charts.

Features

Independent, Four Channel Operation and State of the Art Photo-Optics

On-Screen Prompts

Easy to Use Keypad

On-Board Computerization and QC Package

Compact, Lightweight
Cascade M-4: 8 1/2”H x 14”W x 14”D; 21 lbs.

Fluorescent LCD Display: 6-line x 40 Character

4 1/2” Thermal Printer

Complete line of Helena reagents and controls

Order Information

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Benefits

May be used for single or duplicate testing.

Test directions provided on screen for ease of use. CLIA rated moderately complex. Default settings supplied for all clotting assays, yet operator can easily change parameters.

Test enumeration for all assays. Directions for changing parameters provided. No hidden keys.

Stores standard curves, calculates final results, INRs and aPTT ratios. Calculates \( \bar{X} \), SD, CV and plots Levy-Jennings charts. LIS interfaceable.

Small footprint requires little bench space. Lightweight plastic housing makes instrument easy to move and clean.

Easy to read directions and results display.

Printed results include date, time, INR, average, position for technician and patient identification. Prints graphics for QC and standard curves.

One-stop shopping with no hassles. Make Helena your source for quality reagents and controls for PTs, aPTTs, fibrinogens, thrombin times, factor assays, and more.
Helena Hemostasis

Prothrombin Time
Helena Thromboplastin reagent is prepared from rabbit brain tissue and is suitable for automated, semi-automated and manual applications.

Thromboplastin-LI
- Ready for use, no mixing required
- Stability of open reagent: 14 days at 2-8°C
- Target ISI value: < 1.5

Activated Partial Thromboplastin Time
Helena aPTT reagents are ready-to-use liquids for convenience, high quality for precision, and priced for economy. Multiple kit sizes are available. Reagents are suitable for photo-optical, mechanical and manual (tilt tube) methods.

aPTT-SA (Soluble Activator)
- Soluble ellagic acid activator
- Optical clarity, a plus for automated systems
- Shorter activation time (~3 minutes vs. 5 minutes)

Fibrinogen
- Clauss methodology for quantitation of fibrinogen in acquired and congenital disorders
- Uses high thrombin (~100 NIH units/mL)
- Not significantly affected by heparin concentrations below 0.6 USP units/mL and FDP levels below 100 µg/mL

Thrombin Clotting Time
- Excellent, rapid screening test for qualitative assessment of plasma fibrinogen and interfering substances such as heparin and FDP
- Uses a low concentration of heparin (~3 NIH units/mL) with undiluted plasma

Fibrinogen
- Clauss methodology for quantitation of fibrinogen in acquired and congenital disorders
- Uses high thrombin (~100 NIH units/mL)
- Not significantly affected by heparin concentrations below 0.6 USP units/mL and FDP levels below 100 µg/mL

Hemostasis Controls and Reference Plasmas
Our controls and reference plasmas offer a sensible means to monitor accuracy and precision in hemostasis testing.

PT, aPTT and Fibrinogen Controls
- Norm-Trol 1 is prepared from lyophilized normal human plasma to provide a normal level control for PT, aPTT, and Fibrinogen assays
- Ab-Trol 2 and Ab-Trol 3 are lyophilized absorbed human plasmas which provide moderately elevated and very elevated, respectively, PT and aPTT controls
- Reconstituted controls: stable 8 hours at 2 to 6°C

Specialty Assayed Controls and Reference Plasma
- S.A.R.P. is a highly acclaimed reference plasma standardized to WHO and ISTH. It is prepared from a frozen pool of citrated plasma from healthy donors. The pool is buffered and lyophilized to ensure stability of all plasma constituents.
- Our Specialty Assayed Controls are available in two levels: S.A.C.-1 normal and S.A.C.-2 abnormal
- S.A.R.P. and S.A.C. are assayed for: PT, aPTT, Fibrinogen, Factors II, V, VII, VIII, IX, X, XI, XII, Protein C, Protein S (free & total), Ristocetin Cofactor, and vWF:Ag

Factor Deficient Substrates
Helena offers quality factor deficient substrates with < 1% residual factor activity. All substrates (except Factor II) are prepared from human congenitally deficient donors.

PT, aPTT and Fibrinogen Controls
- Norm-Trol 1, 10 x 1 mL
- Ab-Trol 2, 10 x 1 mL
- Ab-Trol 3, 10 x 1 mL
- S.A.R.P., 10 x 1 mL
- S.A.C.-1 (Normal), 10 x 1 mL
- S.A.C.-2 (Abnormal), 10 x 1 mL

Quality Assurance Review (QAR)
- We offer QAR, a free computer service for analyzing daily QC data for shifts or trends and establishing mean control values for individual laboratories
- QAR allows you to compare your results to other labs using the same reagents, instruments and controls
- Retrospective peer reports include precision data on the various instrument-reagent systems being used
- Ask to enroll in this free service when placing your order for Norm-Trol 1, Ab-Trol 2 and Ab-Trol 3

Norm-Trol 1, 10 x 1 mL
- 5186
Ab-Trol 2, 10 x 1 mL
- 5187
Ab-Trol 3, 10 x 1 mL
- 5183
S.A.C.-1 (Normal), 10 x 1 mL
- 5301
S.A.C.-2 (Abnormal), 10 x 1 mL
- 5302
S.A.R.P., 10 x 1 mL
- 5185
Helena Hemostasis

Helena Thromboplastin reagent is prepared from rabbit brain tissue and is suitable for automated, semi-automated and manual applications.

- **Thromboplastin-LI**
  - Ready for use, no mixing required
  - Stability of open reagent: 14 days at 2-8°C
  - Target ISI value: < 1.5

- **Thromboplastin-LI**
  - 250 tests, 10 x 5 mL
  - 500 tests, 10 x 10 mL

Activated Partial Thromboplastin Time

Helena aPTT reagents are ready-to-use liquids for convenience, high quality for precision, and priced for economy. Multiple kit sizes are available. Reagents are suitable for photo-optical, mechanical and manual (tilt tube) methods.

- **aPTT-SA (Soluble Activator)**
  - Soluble ellagic acid activator
  - Optical clarity, a plus for automated systems
  - Shorter activation time (~3 minutes vs. 5 minutes)

Fibrinogen

- **Clauss methodology for quantitation of fibrinogen in acquired and congenital disorders**
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- **Not significantly effected by heparin concentrations below 0.6 USP units/mL and FDP levels below 100 µg/mL**

- **Thrombin Clotting Time**
  - Excellent, rapid screening test for qualitative assessment of plasma fibrinogen and interfering substances such as heparin and FDP
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- **Norm-Trol 1** is prepared from lyophilized normal human plasma to provide a normal level control for PT, aPTT, and Fibrinogen assays
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- **Our Specialty Assayed Controls and Reference Plasma**
  - **S.A.C.-1** normal
  - **S.A.C.-2** abnormal

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- **Factor Deficient Substrates**
  - Helena offers quality factor deficient substrates with < 1% residual factor activity. All substrates (except Factor II) are prepared from human congenitally deficient donors.

- **Congenital Factor Deficient Substrates**
  - Factor V Deficient Substrate, 10 x 1 mL
  - Factor VII Deficient Substrate, 10 x 1 mL
  - Factor VIII Deficient Substrate, 10 x 1 mL
  - Factor IX Deficient Substrate, 10 x 1 mL
  - Factor XI Deficient Substrate, 10 x 1 mL
  - Factor XII Deficient Substrate, 10 x 1 mL

- **Bovine Factor Deficient Substrate Plasma**
  - Factor II Deficient Substrate, 10 x 1 mL

- **PT, aPTT and Fibrinogen Controls**
  - Norm-Trol 1
  - Ab-Trol 2
  - Ab-Trol 3

- **S.A.C.-1** normal
- **S.A.C.-2** abnormal
- **S.A.R.P.**
  - S.A.C.-1 normal
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  - S.A.R.P.

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- **Factor Deficient Substrates**
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- **Conventional Factor Deficient Substrates**
  - Factor V Deficient Substrate, 10 x 1 mL
  - Factor VII Deficient Substrate, 10 x 1 mL
  - Factor VIII Deficient Substrate, 10 x 1 mL
  - Factor IX Deficient Substrate, 10 x 1 mL
  - Factor XI Deficient Substrate, 10 x 1 mL
  - Factor XII Deficient Substrate, 10 x 1 mL

- **Bovine Factor Deficient Substrate Plasma**
  - Factor II Deficient Substrate, 10 x 1 mL

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www.helena.com