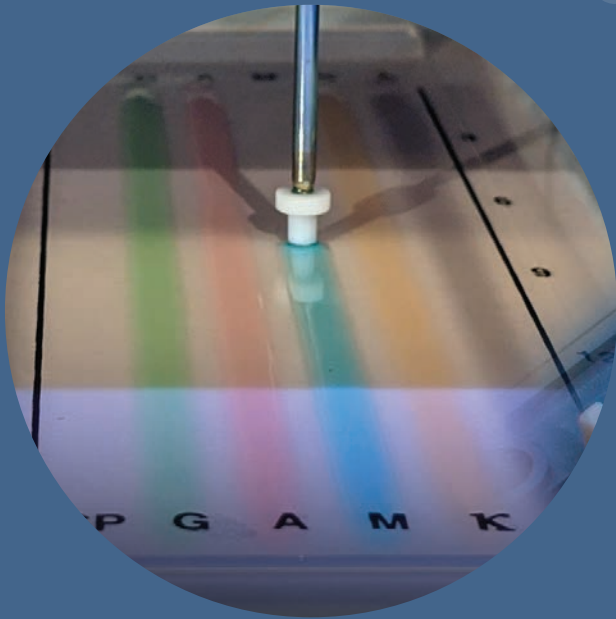
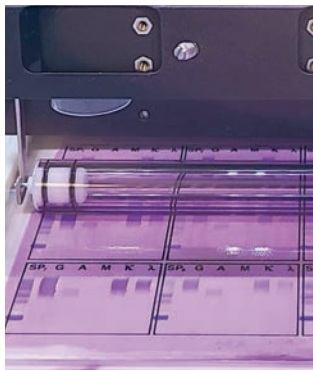


HELENA PRODUCT HIGHLIGHTS

2024





3-12
NEXUS SERIES
Auto gel and capillary electrophoresis

5-9
SPIFE NEXUS
Fully automated gel electrophoresis

10-12
V8 NEXUS
Automated clinical capillary electrophoresis

13-14
NEW! V8 ULTRA CE
Advanced capillary electrophoresis



15-24
TOUCH SERIES
Integrated solution for high volume electrophoresis workloads

18
ESH TOUCH
High volume sample handling

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SPIFE TOUCH
Workhorse solution for clinical gel electrophoresis

23-24
QUICKSCAN TOUCH PLUS
Densitometry and data management

25-26
QUICKGEL
Manual electrophoresis



27-36
HEMOSTASIS
Point of care assays, classic coagulation, platelet aggregation and ELISA testing

29-30
PLATELETWORKS
Platelet function screening

31-32
ACTALYKE ULTRA / MINI II
Activated clotting time testing

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AGGRAM
Modular platelet aggregometer and reagents

35-36
CASCADE M4
Hemostasis analyzer and reagents



37-40
FOBT / PLASTICS
Occult blood testing and disposable plastics

38
OCCULT BLOOD
ColoScreen ES and ColoCARE

39-40
DISPOSABLE PLASTICS
C-Pette, U-Pette, H-Pette and urine collection cups

HELENA PRODUCT HIGHLIGHTS 2024

MESSAGE FROM TIPTON GOLIAS | CHAIRMAN AND FOUNDER

We are experts. And so are you! Like you, many of us at Helena have devoted our entire working lives to the betterment of laboratory medicine and the wellbeing of others.

Much of our expertise this past year has focused on furthering electrophoresis automation. Our staff has continued to advance the hardware and software of the **SPIFE Nexus** gel analyzer and we have expanded the assay menu. Scores of labs have chosen the automated SPIFE Nexus because when compared to CE, it provides highest sensitivity gel IFE without adding labor or time to the equation. Beside SPE, IFE and Hb, new assays for 2024 include **CK, LD** and **ALP isoenzymes** and our direct cholesterol profile which includes **Lp(a)-c**. If you haven't personally had your Lp(a) measured, PLEASE DO! As Cathy Bohrer can attest, it matters! R&D has continued work on our **SPIFE LDL-P Particle Count** assay too which uses IFE with anti-apolipoprotein B antisera to further quantify cardiac risk.

We have made great strides on our next generation capillary electrophoresis system as well. The **V8 Nexus** is a step ahead with its eight capillaries and automated conditioning. The **V8 Ultra CE** analyzer will take things further with a completely redesigned capillary array and advanced bubble cell technology to improve performance and speed beyond anything out there today.

We've also focused on **SPIFE A1AT, Plateletworks** platelet function screen, **ACT** and the latest in laboratory plastics. We need your impressions of the direction Helena is heading. Are we meeting the needs of today and tomorrow? We want to hear from you and hope you will feel free to share your thoughts. We look forward to hearing from you.

Best personal regards,



Tipton Golias
Chairman and Founder



CUSTOMER REVIEW



I've been to several Helena Road Shows over the years and have been intrigued with Tipton's stories about Lp(a). I've thought to myself, "I should get that checked." This year, I finally did and was shocked to find it's very high! For years, my cholesterol has been around 205 with normal LDL and triglycerides. Doctors said not to worry about the cholesterol value because my HDL was so good plus I run and lift weights, no high blood pressure, normal BMI, and a nonsmoker. All that made the doctors think I was good. How wrong! Now that I know I have high Lp(a), I'm working to lower my LDL, and since it's genetic, urging all my family to check their Lp(a) too. One of my sons just got tested and his Lp(a) is high too. I'm grateful that we know so he can take action at an early age. My other three kids will be tested soon. Who would have thought a Road Show could impact someone's life in that way! I hope it becomes a normal part of lipid panels since in my case, it would have helped years ago to have known my Lp(a) is high.

"Now that I know I have high Lp(a), I'm working to lower my LDL, and since it's genetic, urging all my family to check their Lp(a) too."

CATHY BOHRER
C&C Clinical Laboratory
Consulting LLC
Wylie, Texas



VISIT WEBSITE

**NEW! V8
ULTRA CE**

New 8-channel CE system provides superior results and stunning reproducibility.

P13**SPIFE NEXUS
AUTO GELELP**

Reimagine gel electrophoresis: Walkaway processing of full-sized gels with auto everything - from sampling to antisera application to scanning - with crystal clear results.

P5**ALPHA-1
ANTITRYPSIN**

American Lung Association recommends all individuals with COPD or emphysema be tested for Alpha-1 Antitrypsin deficiency.

P19**MYELOMA
TESTING**

The Myeloma Module is an optional tracking feature that allows quick review and reporting of results from both the SPIFE gel and the V8 CE systems.

P24

NEXUS SERIES



Scale: 100%



Parameters

V8 Runtime Buffers

V8 Runtime Reagents

| | Buffer 2 | Buffer 3 | Buffer 4 | Buffer 5 | Buffer 6 |
|--------|------------|------------|------------|----------------|--------------------|
| 70KPN | 0000000000 | 0000000000 | 0000000000 | O9TGLLT2AT | IKD5EQICFI |
| Buffer | none | none | none | Storage Buffer | Maintenance Buffer |
| | 0101 | 0101 | 0101 | 0523 | 0623 |
| | 0 | 0 | 0 | 13 | 29 |
| | 0 | 0 | 0 | 8 | 28 |
| | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 1000 | 992 |
| 09 | 09 | 09 | 09 | 104 | 175 |

AUTO GEL AND CAPILLARY ELECTROPHORESIS



HELENA NEXUS SERIES

Do more with less. That's the mandate for most laboratories today and Helena is ahead of the curve in providing solutions. The **SPIFE Nexus** and the **V8 Ultra CE** totally automate electrophoresis, whether you prefer gel, capillary or both.

- ➔ **SPIFE NEXUS** - Fully Automated Gel Electrophoresis ----- Pages 5-9
- ➔ **V8 NEXUS** - Automated Clinical Capillary Electrophoresis ----- Pages 10-12
- ➔ **V8 ULTRA CE** - New Advanced Clinical Capillary Electrophoresis ----- Page 13-14

SPIFE NEXUS

FULLY AUTOMATED GEL ELECTROPHORESIS

05



75 IFE SAMPLES IN 8 HOURS

Only 30 minutes hands-on time for up to 75 IFE samples in a shift. That's 30 seconds of tech time per IFE profile!



Load reagents and up to 100 samples



Hit Start and walk away



Beginning to end automation

→ All the Sensitivity without All the Labor!

The SPIFE Nexus has been well received as an effective solution to high labor costs and the shortage of skilled laboratory workers. SPIFE Nexus provides total walkaway automation of gel electrophoresis.

Based on our proven SPIFE agarose gel platform, SPIFE Nexus reimagines all processing steps from sampling to final reports with linking to capillary results as well. A fully precise and reproducible run can be completed with just five minutes of hands on time.

SPIFE NEXUS FAST FACTS

100

One to 100 SPEs per gel

15

IFE profiles in 90 minutes

500

SPEs in 8 hours

5

Minute setup per run

ADVANCED TECHNOLOGY FEATURES

Uniform Sample Application and Clear Background

→ BLADE APPLICATORS

Blade applicators with micro-serrated tips for better pattern consistency

→ BLOTTER SYSTEM

Unique dual blotter system removes excess unbound antisera for cleaner, easier-to-interpret patterns

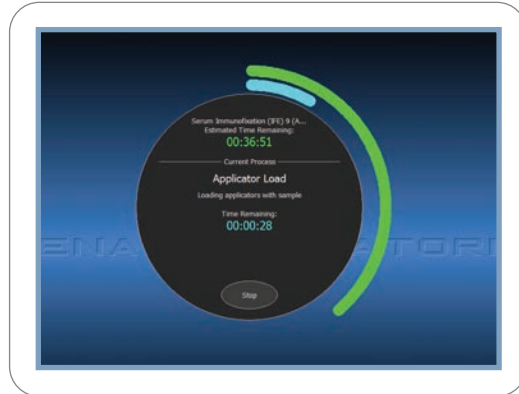
→ CLEAR WASH

Clear Wash removes unbound residual stain; addresses ghosting from macro proteins

SCAN TO EXPLORE THE SPIFE NEXUS OR TO SCHEDULE A VIRTUAL DEMO.



➔ Full Automation for Walkaway Processing and Analysis



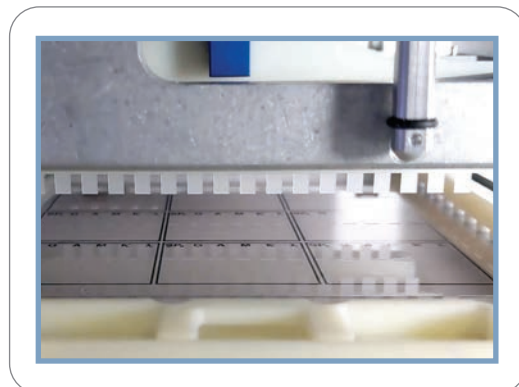
- Load reagents and samples and walk away
- All gel processing and scanning are automated
- Visual status updates for monitoring at a glance

➔ User-Friendly with Error Checking



- Ready Run Tray for easy, five-minute benchtop setup
- Assay-specific QR codes with system check to prevent operator errors in setup
- Intuitive and flexible software interface

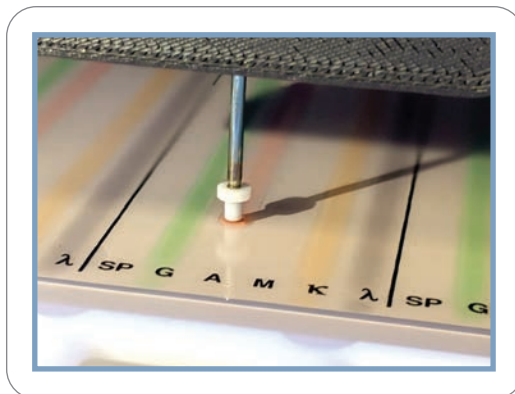
➔ Auto Sampling and Application



- Auto sampling from primary tubes or prepared sample trays
- Auto dilutions for immunofixation
- Automatic application of samples to gels
- Application system unaffected by triglycerides or large proteins

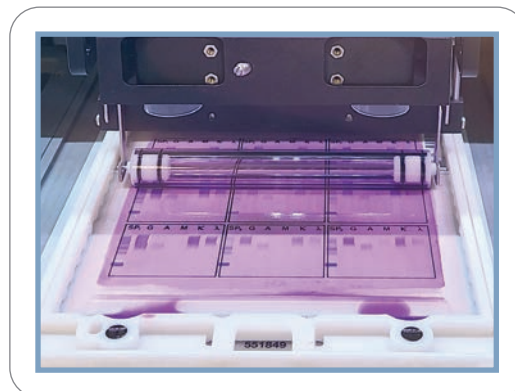
Revolutionary Antisera Application System ←

- Ready-to-use, color-coded antisera in temperature controlled on-board storage
- Antisera for up to 15 profiles applied directly to gel
- No crossover contamination



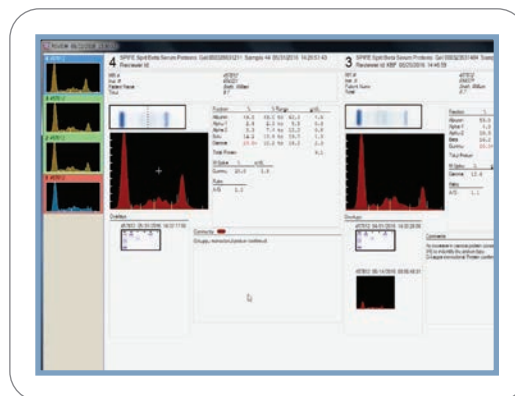
Ready-To-Use Pre-Packaged Stains ←

- Liquid stain, ready to be aliquoted for use
- Stain is evenly distributed with roller bar
- Reduces waste and increases efficiency



Integrated Reporting With Myeloma Module ←

- QuickScan Touch Plus on-board for precise quantitation
- Links to V8 Nexus CE data
- Myeloma Module provides full report profile for rapid review and reporting

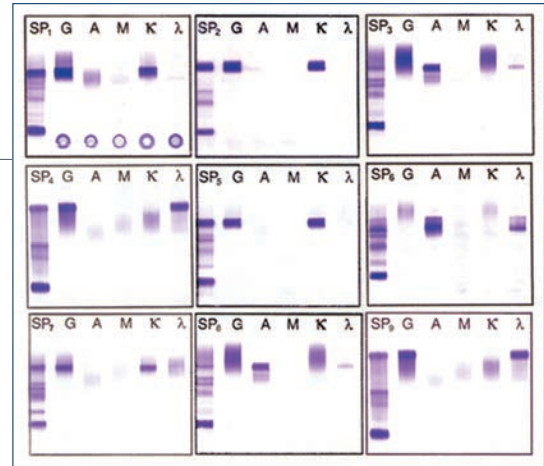
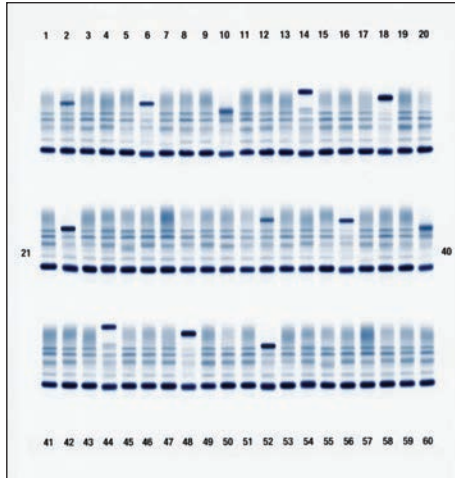


SPIFE Nexus
Dimensions:
 41" (104.1 cm) W
 x 31" (78.8 cm) D
 x 29" (53.3 cm) H
Monitor and Keyboard:
 23" (58.4 cm) H
 x 14" (35.6 cm) W
 x 16" (40.6 cm) D
Total Weight: ~250 lbs (113.4 kg)
Environment: 15° to 27° C (59° to 80.6° F)
Operating System: Microsoft® Windows® 10
**Windows is a registered trademark of Microsoft Inc.*
Input Power: 100 to 120 VAC at 16 Amps Max/200 to 264 at 10 Amps Max
Electrophoresis Timer Range: 1 sec. to 20 min. in 1 second increments @ 1100V and 150mA
Chamber Temperature Range: 10° to 32° C
Pre-Drying Temperature Range: 30° to 62° C
Final Drying Temperature Range: 30° to 65° C
Test Tubes: 12-16 mm diameter, 75-100 mm height

Alkaline and Acid Hb testing can now be done with greater automation on SPIFE Nexus. The Alkaline Hb method rapidly quantitates HbA, F, S and C and other variants. Further testing with acid buffers qualitatively differentiates between variants with similar electrophoretic properties.

2401 6 profile kit
 2409 9 profile kit
 2408 15 profile kit

SPIFE Nexus
 ImmunoFix



SPIFE Nexus
 Split-Beta Proteins

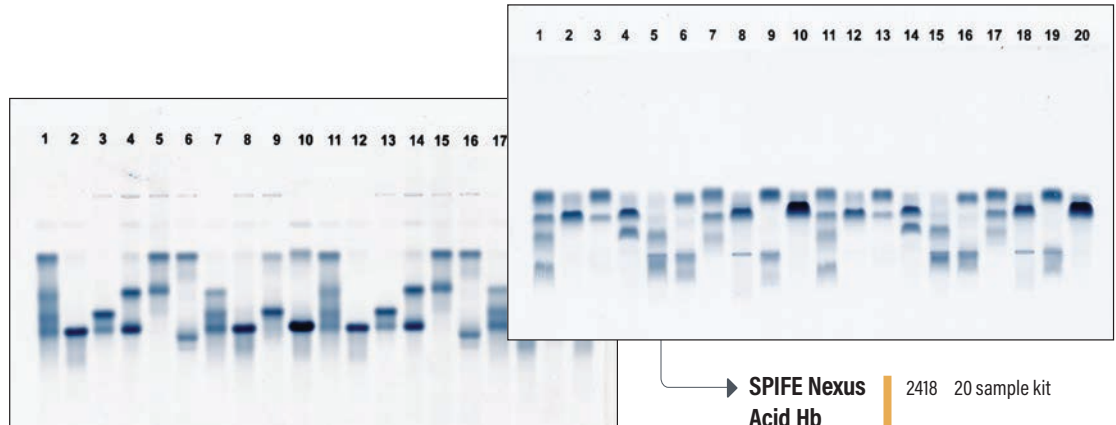
2422 20 sample kit
 2421 40 sample kit
 2420 60 sample kit
 2399 80 sample kit
 2398 100 sample kit

➔ Available Assays

- Serum/Urine Immunofixation
- Serum/Urine Proteins
- Alkaline Hemoglobins
- Acid Hemoglobins
- **New** CK Isoenzymes
- **New** LD Isoenzymes
- **New** Alkaline Phosphatase Isoenzymes
- **New** Cholesterol Profile with Lp(a)-c



Hb wall chart provides a handy reference.



SPIFE Nexus
 Alkaline Hb

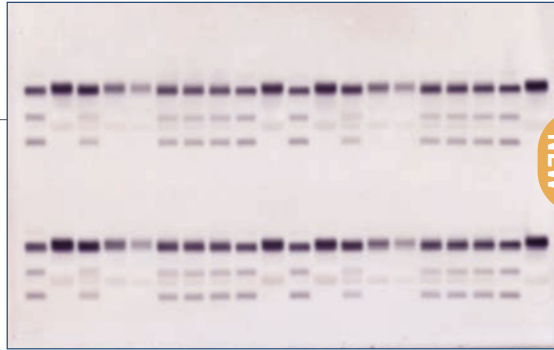
2415 20 sample kit

SPIFE Nexus
 Acid Hb

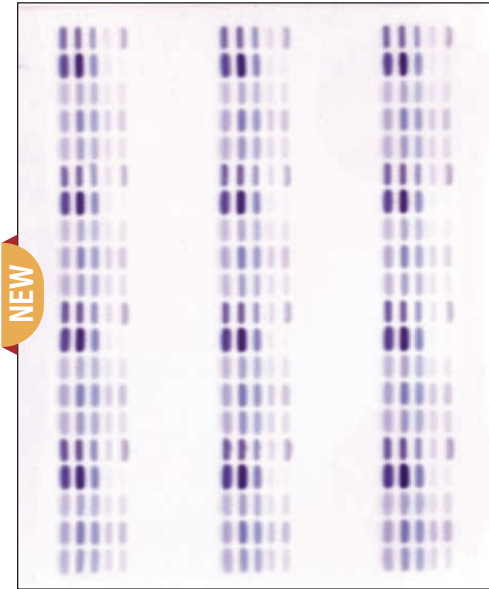
2418 20 sample kit

2332 40 sample kit
2333 20 sample kit

SPIFE Nexus CK Isoenzymes



NEW



NEW

SPIFE Nexus LD Isoenzymes

2335 60 sample kit
2336 40 sample kit
2337 20 sample kit

2346 40 sample kit
2345 20 sample kit

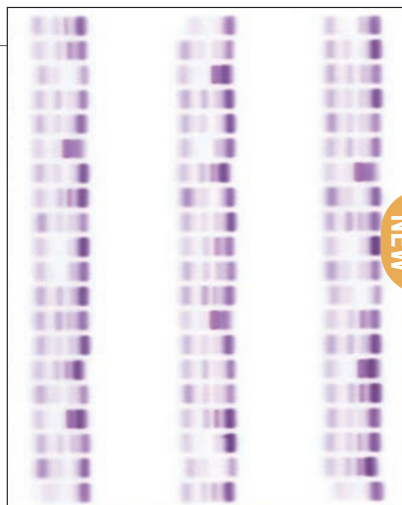
SPIFE Nexus ALP Isoenzymes



NEW

SPIFE Nexus Cholesterol

2438 100 sample kit
2439 80 sample kit
2440 60 sample kit
2441 40 sample kit



NEW

Nexus Cholesterol totally automates direct measurement of the cholesterol content of LDL, HDL, VLDL and Lp(a). Lp(a)-c does not suffer the inaccuracies of Lp(a) mass assays caused by isoform size variations. About 20% of the population are genetic expressors of highly atherogenic Lp(a) and distinguishing between LDL-c and Lp(a)-c is vital to appropriate diagnosis and treatment.

10

V8 NEXUS

AUTOMATED CLINICAL CAPILLARY ELECTROPHORESIS



Run 8
capillaries
simultaneously



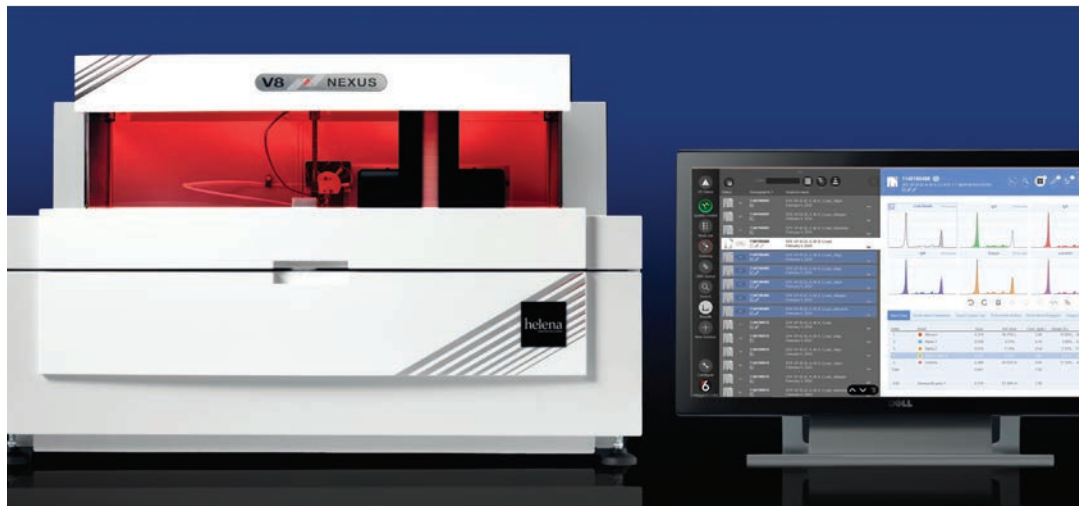
10 open
reagent
positions



Automatic
capillary
conditioning



Dovetails with
SPIFE Nexus
for integrated
gel/CE
reporting

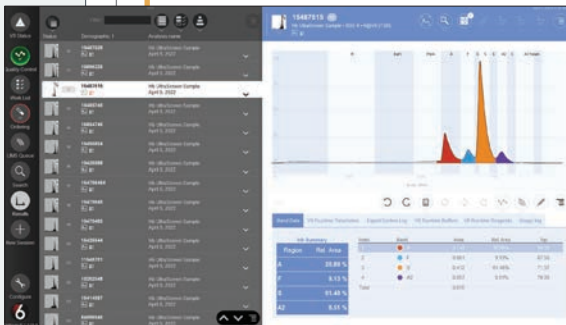


➔ Proteins, Immunodisplacement, Hb

The V8 Nexus features eight capillaries and six on-board buffer positions that enable full multi-assay functionality and high throughput. A superior sample handling system allows continuous loading of samples with auto-dilutions and auto-preparation of SPIFE sample trays for additional testing by gel electrophoresis.

NEXUS CE ASSAYS

- Hemoglobins
- Immunodisplacement
- Serum Protein 6-band



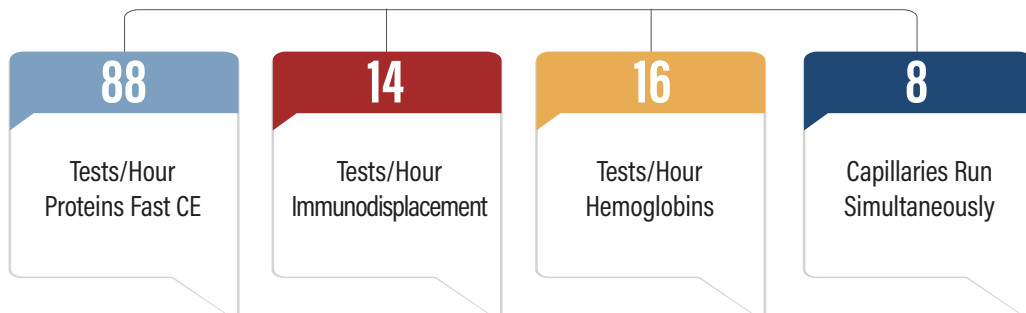
➔ UltraScreen Hemoglobin

The new V8 Nexus Hemoglobin UltraScreen method is designed for hands-off separation of normal hemoglobins A, A2, and F and detection of major hemoglobin variants such as S and C. Clear separation of HbE and HbA2 allows precise diagnosis of thalassemia with automated efficiency. The V8 prepares hemolysates from primary patient tubes, separating up to 16 samples per hour.

SCAN TO
EXPLORE THE
V8 NEXUS OR
TO SCHEDULE
A VIRTUAL
DEMO.



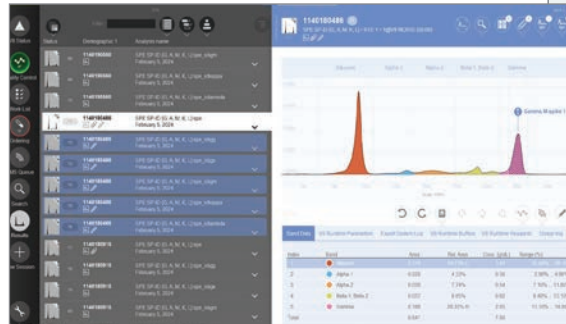
V8 NEXUS FAST FACTS



Eight capillaries, six buffers and ten reagents on-board for multi-assay use.

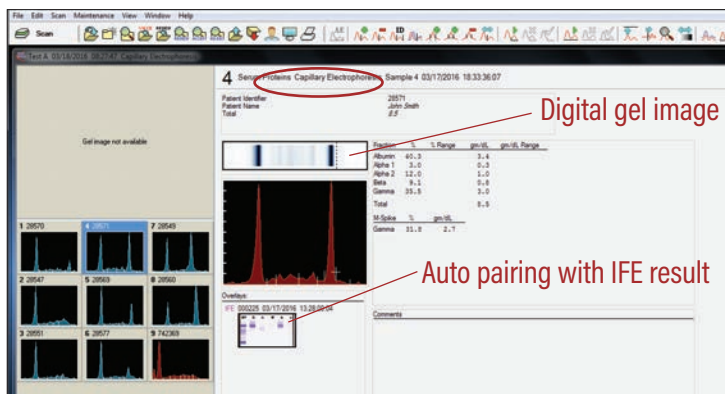
➔ Platinum 6.1 / QuickScan Software

Platinum 6.1 system software provides a comprehensive set of analytical tools and user-defined options for ease of operations. The V8 can also use QuickScan Touch Plus software for editing, reviewing and reporting. Previous patient data from the QuickScan, such as serum and urine IFE and protein results, can be included on the capillary electrophoresis reports.



➔ INTUITIVE SOFTWARE

INTEGRATE NEXUS CE WITH SPIFE GEL



- Use QuickScan software with Myeloma Module to edit, review and report
- Auto-pair patient data from Helena gel



➔ Nexus MAX

- Nexus MAX provides walkaway automation for high throughput CE analysis
- Load an additional 440 samples for transfer to the V8 Nexus
- 440 + 112 = 552 SPEs in 6 hours

NEXUS MAX
Automated High Volume Sample Handling



1845
Nexus MAX Sample Bay

SCAN TO EXPLORE THE NEXUS MAX.





Automated high throughput capacity

Fully automated capillary conditioning and maintenance

Greatly reduced waste

Real time monitoring

Full audit trail accountability

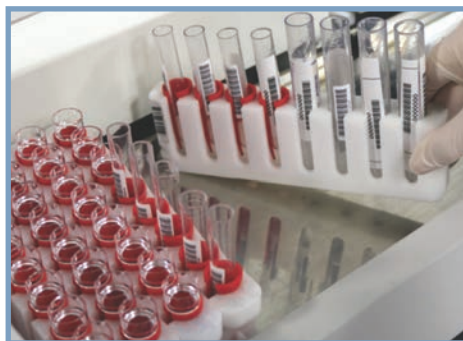
Integration of CE and gel data with advanced reporting



1803
V8 Immunodisplacement Kit

1805
V8 Serum Protein SPE Kit

1828
V8 Nexus Hemoglobin
Ultrascreen Kit



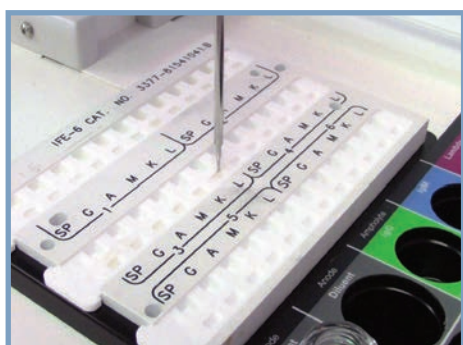
➔ Sample Handling

- Continuous sample loading
- Up to 112 samples on board (552 with Max)
- Excellent liquid-sensing technology
- 30 μ L sample dead volume (sample tube dependent)
- Positive patient identification and full sample traceability



➔ Buffer Handling

- 6 buffer positions
- Ten on-board reagent positions
- Multiple method capability
- Full audit traceability
- Automated buffer replenishment
- Efficient walkaway automation
- One buffer bottle purged at a time



➔ Reflex to Gel

- Ability to reflex to gel tray
- Peltier temperature controlled reagent bay
- Controlled stability and reduction in reagent loss



➔ Auto Maintenance

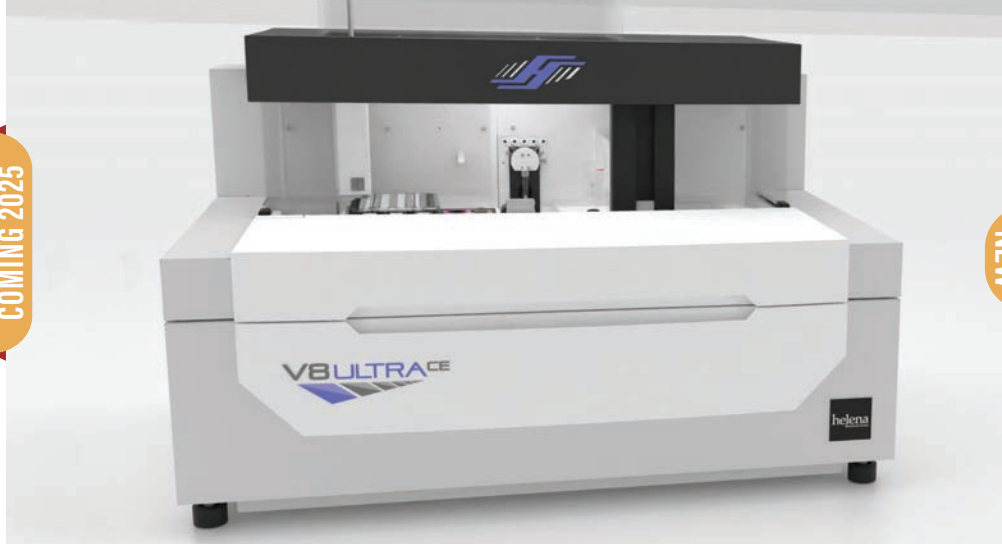
- User-scheduled maintenance – ready to go when techs arrive
- Fully automated maintenance procedures
- Automated purging for capillary conditioning
- Auto system check

NEW! V8 ULTRA CE

ADVANCED CAPILLARY ELECTROPHORESIS

13

COMING 2025



NEW

V8 ULTRA FAST FACTS

80

Proteins/Hour

16

ID/Hour

50

Hb/Hour

PROVIDES EFFICIENT,
WALKAWAY AUTOMATION

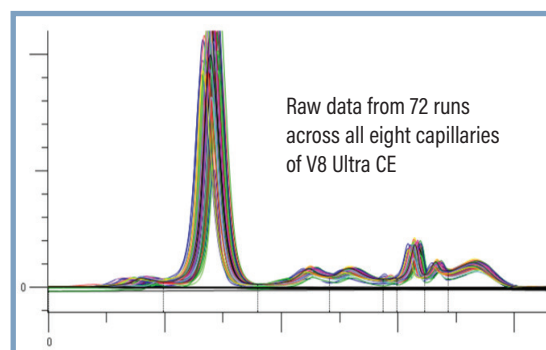
➔ New Sample Processing Features

- Integrated cap piercing technology
- Agitation system for creating whole blood hemolysates for Hb testing
- Full needle wash prevents cross contamination



➔ Exceptional Reproducibility

- Next-gen buffer chemistries
- New capillary array provides greater resolution, reduced noise, and improved separation
- Outstanding capillary-to-capillary data characteristics





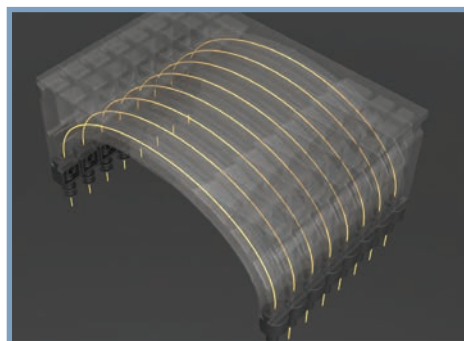
Integrated cap piercing

Next-gen buffer chemistries

Precision capillary array with cooling

Nanocell technology

Exceptional reproducibility



➔ Precision Capillary System

- Shorter, narrower capillaries with Nanocell™ technology
- Active cooling and LED+ deuterium light source
- Superior capillary recovery



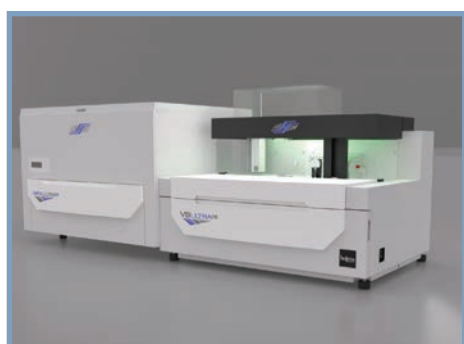
➔ Multiple Method Capability

- 3x run buffer positions
- Automated buffer replenishment
- One buffer bottle purged at a time
- High capacity waste bottle



➔ Platinum 6.2

- Redesigned user interface
- Simpler, clearer screen layout
- Easier navigation
- New trace display aids interpretation and reporting



➔ Connect and Expand

- Laboratory track system ready
- MAX Ultra CE tube handler increases onboard sample capacity to 552 samples for walkaway capability

TOUCH SERIES



INTEGRATED SOLUTION | BROAD MENU | WORKHORSE



HELENA TOUCH SERIES

- ➔ **ESH TOUCH** - Electrophoresis Sample Handler ----- Page 18
- ➔ **SPIFE TOUCH** - The Nucleus of the Touch System ----- Pages 19-22
- ➔ **QUICKSCAN TOUCH PLUS** - Densitometry & Data Management ----- Pages 23-24

TOUCH SERIES

INTEGRATED SOLUTION

HIGH VOLUME

17

Helena's integrated solution for high volume electrophoresis workloads.



ESH TOUCH

Auto Dilutions



SPIFE TOUCH

Faster Processing



QS TOUCH PLUS

Myeloma Tracking



WEBINARS

Interactive Training

Webinars are available to help you streamline your workflow.

The Touch integrated gel ELP system puts the power of touch technology in your hands to knock out all your protein, immunofixation, hemoglobin and cholesterol testing quickly and efficiently. The Touch system is very versatile, integrates with the V8 capillary system, and provides ease of interpretation with the Myeloma Module for reporting results.

SCAN TO EXPLORE THE TOUCH SERIES.



The next generation of **Electrophoresis Sample Handler** joins the Touch Series of analyzers as part of Helena's integrated solution for high volume electrophoresis workloads. ESH Touch provides automated front-end specimen processing for the SPIFE Touch with positive patient ID and interface to QuickScan Touch Plus or LIS - in a small, fast, quiet, flexible and user-friendly package.

SCAN TO EXPLORE THE ESH TOUCH.

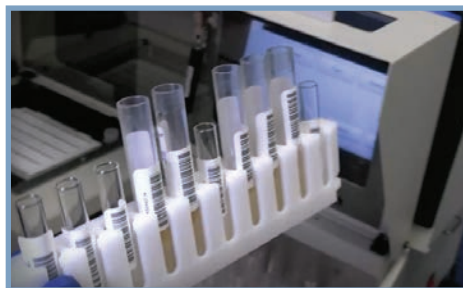


AUTO FRONT-END SPECIMEN PROCESSING

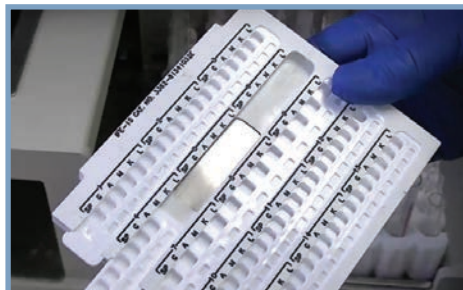


ESH Touch transfers samples directly from primary patient tubes to barcoded sample trays, ready for application to agarose gels by the SPIFE Touch. Its 100-sample capacity accommodates the largest SPIFE Touch gels, plus dilution schemes for each sample can be specified. A touch screen interface makes the system easy to use.

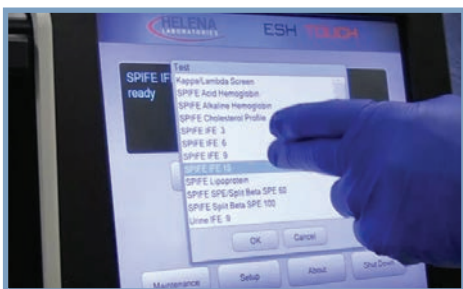
➔ Place Racks into the Instrument



➔ Install a Sample Tray

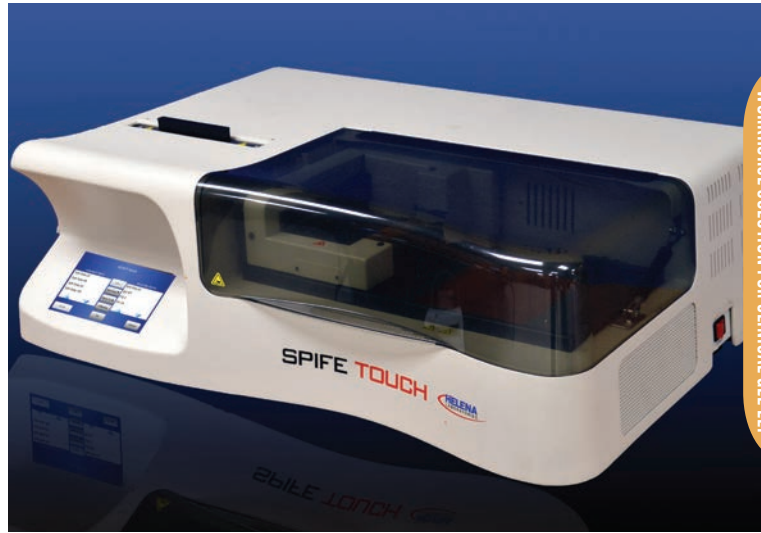


➔ Select the Test - Push Start



- Primary tube sampling with liquid level sensor
- User-friendly touch screen interface
- Improved liquid level detection
- Barcode reader with LIS interface for positive ID
- 100-sample capacity
- Flexible dilutions, i.e. per sample analyte
- Smaller footprint
- 50% faster sample tray preparation
- Quieter operation

SPIFE Touch is the proven workhorse solution for clinical gel electrophoresis needs. It's versatile and reliable with multiple gel sizes for flexibility. A full menu of analytes includes proteins, IFEs, hemoglobins, direct cholesterol with Lp(a)-c, isoenzymes, lipoproteins, A1AT and oligoclonal banding. A touch screen interface, faster processing and organized workflow mean greater efficiency over other semi-automated electrophoresis analyzers.



- Easy-to-use touch screen interface
- Integrates with ESH Touch and QST-Plus for positive sample tracking
- Fast, clean and accurate sampling of up to 100 samples per gel
- Peltier temperature control for sample integrity and crisp separations
- Automatic application of reagents for enzymatic assays or stains for visible analytes
- A full menu of analytes and gel sizes

NEW

SPIFE AIAT

Alpha-1 Antitrypsin deficiency is the most common genetic risk factor for COPD and causes liver disease



Misdiagnosis is common; the average AIAT patient has seen 3 doctors over 7 years since first lung symptoms

Get Tested:

- Family history of AIAT deficiency
- Multiple family members with shortness of breath, cough
- Early onset emphysema

Get Tested:

- Asthma unresponsive to treatment
- Everyone with COPD
- Unexplained liver disease

■ Early diagnosis is essential! Lung damage is not reversible. Treatment can slow progression.

■ 360,000 with COPD have AIAT deficiency

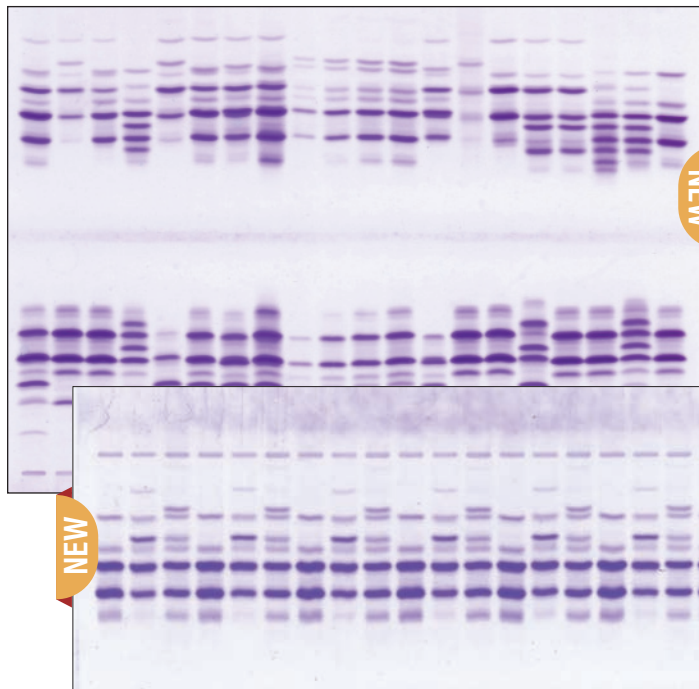
■ In USA, 16 million with COPD; millions more undiagnosed*

*NIH National Heart, Lung and Blood Institute

SCAN TO EXPLORE THE SPIFE TOUCH.



SCAN TO
EXPLORE
THE AIAT
ASSAY.



→ SPIFE Alpha-1 Antitrypsin

- American Lung Association recommends all individuals with COPD or emphysema be tested for AIAT deficiency
- SPIFE AIAT assay separates up to 20 or 40 samples per gel
- Identifies all phenotypes clinically relevant to lung and liver disease

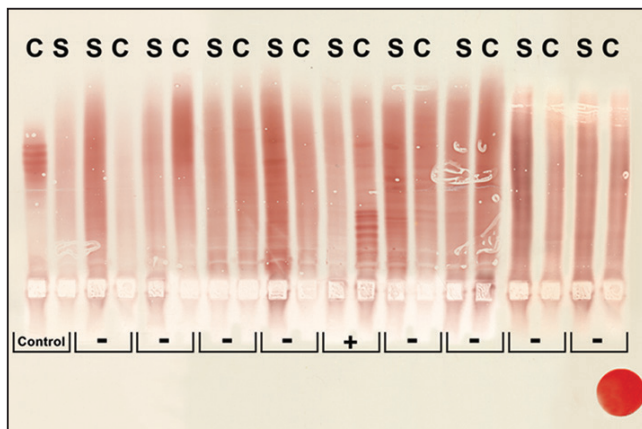
SPIFE AIAT | 3432 40 sample kit
3433 20 sample kit

■ Separate up to 40 samples per SPIFE gel

■ Identify all clinically relevant phenotypes

■ Easy, quick and inexpensive

■ Excellent sensitivity



→ Oligoclonal Banding

SPIFE IgG IEF technique is the "gold standard" for determining intrathecal IgG synthesis. This method uses highly sensitive immunoblotting resulting in a 95% sensitivity level. The concentration of individual bands may be as low as 2% of the total CSF IgG but can be seen even while the total CSF IgG concentration is within the reference range.

IgG IEF | 3389 5 profiles
3385 10 profiles

SCAN TO
EXPLORE
THE IgG
IEF ASSAY.



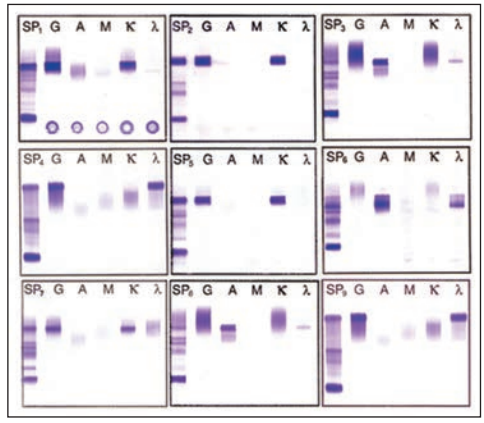
McDonald Criteria 2017 Revision

Position Paper of the International Panel on Diagnosis of Multiple Sclerosis

- CFS oligoclonal bands (OCB) now considered diagnostic of MS after patient's 1st attack if ≥ 2 MRI lesions present.
- CSF OCB diagnostic after a 2nd clinical attack implicating a different CNS site, even if only 1 MRI lesion present.
- The presence of 2 or more CSF OCB indicates intrathecal antibody synthesis more reliably than other CSF tests.

AJ Thompson, BL Banwell, F Barkhof, et al., *The Lancet*, December 2017

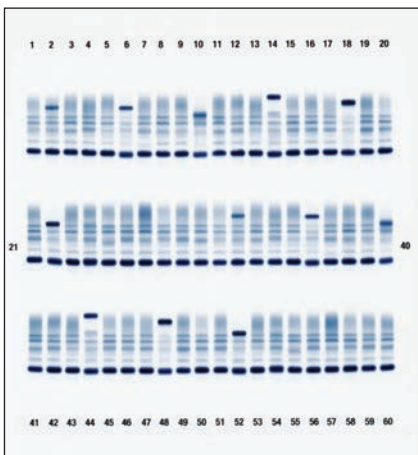
SPIFE TOUCH® BROAD MENU OF ASSAYS



➔ **ImmunoFix Profile**

- Tight crisp bands
- Simple multi-channel antisera application
- Antisera balanced for highest sensitivity with least blush

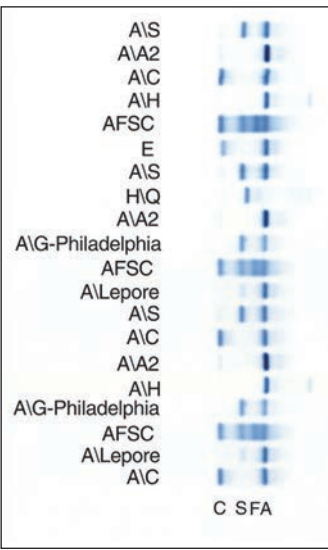
| | | |
|------|-----|-------------|
| 3408 | 15 | profile kit |
| 3409 | 9 | profile kit |
| 3401 | 6 | profile kit |
| 3406 | 3 | profile kit |
| 3351 | 1/2 | profile kit |



➔ **Proteins - Classic or Split**

- Classic 5-band or split beta separations
- Superior resolution and sensitivity
- Serum applied neat; optional concentration of urines
- Gel sizes for every workload – up to 100 samples per gel

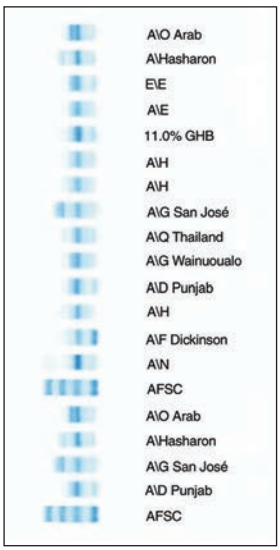
| Split-Beta | | |
|------------|-------|------------|
| 3398 | 100 | sample kit |
| 3399 | 80 | sample kit |
| 3420 | 60 | sample kit |
| 3421 | 40 | sample kit |
| 3422 | 20 | sample kit |
| 3350 | 10/20 | sample kit |
| Classic | | |
| 3460 | 60 | sample kit |
| 3461 | 40 | sample kit |
| 3462 | 20 | sample kit |
| 3405 | 10/20 | sample kit |



➔ **Alkaline Hemoglobin**

Separations with SPIFE Alkaline Hemoglobin mimic classic cellulose acetate and are the front line for detecting hemoglobinopathies. Use of acid blue stain provides excellent sensitivity and linearity. Precise temperature control improves separation, resolving even problematic Hemoglobin H.

| | | |
|------|----|------------|
| 3415 | 20 | sample kit |
| 3429 | 10 | sample kit |



➔ **Acid Hemoglobin**

SPIFE Acid Hemoglobin is a much less cumbersome method than conventional citrate agar for characterizing hemoglobinopathies. The use of acid blue stain brings linearity not available with O-Tolidine or O-Dianisidine based systems. Finished gels are stable in storage and will not continue to darken.

| | | |
|------|-------|------------|
| 3418 | 20 | sample kit |
| 3419 | 10/20 | sample kit |

SCAN TO EXPLORE SPIFE TOUCH ASSAYS.





→ Cholesterol Profile

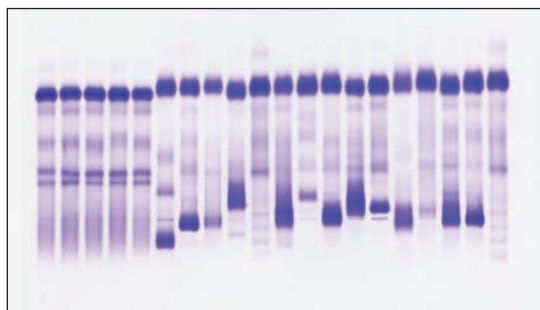
SPIFE Cholesterol measures the cholesterol content of HDL, LDL, VLDL and Lp(a) in a single assay. Lp(a) is the most atherogenic lipoprotein in the human body and is a proven causal factor of heart disease.

- Excellent correlation to ultracentrifugation
- Favorable reimbursement margin
- Lp(a)-c single best predictor of plaque and major ischemic events
- Unaffected by lipid isoform size making it analytically superior to Lp(a)-mass

3438 100 sample kit
3439 80 sample kit
3440 60 sample kit

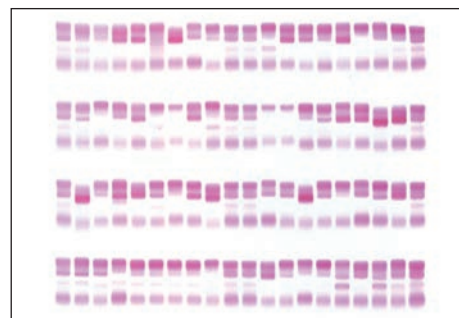
3441 40 sample kit
3442 20 sample kit
3443 10 sample kit

→ Hi-Res Proteins



3430 20 sample kit

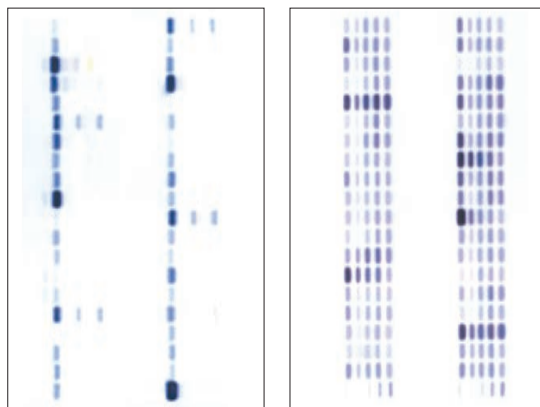
→ Lipoprotein Separation



3340 80 sample kit
3341 60 sample kit
3342 40 sample kit

3343 20 sample kit
3344 10 sample kit

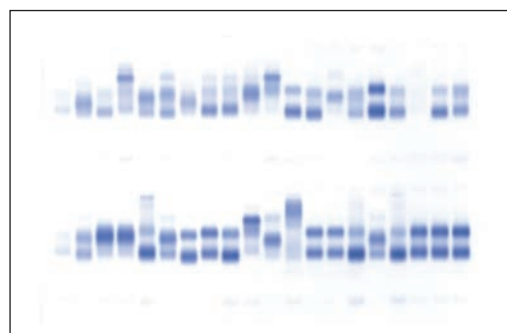
→ CK and LD Isoenzymes



3332 40 sample kit
3333 20 sample kit
3334 10/20 sample kit

3335 60 sample kit
3336 40 sample kit
3337 20 sample kit
3338 10/20 sample kit

→ Alkaline Phosphatase



3346 40 sample kit
3345 20 sample kit

The QuickScan Touch Plus includes a more powerful SQL database format and optional server for enhanced data management. Data from multiple Helena systems, including gel and CE, can be electronically paired for interpreting, reviewing and tracking of results. Historic data from competitive systems can be imported.



IMAGING AND QUANTITATION



- Auto M-spike delimiting provides user-to-user consistency
- Barcoded gels allow positive ID from patient tube to final results with LIS interface
- Composite key identifier created from two demographic fields
- Full audit trail accountability
- Auto pair allows user to overlay up to two previous scans on the patient's current results
- Sharp patterns with adjustable contrast and brightness enhance small bands
- Patterns can be reviewed and edited remotely



MYELOMA TRACKING MODULE

Unify Gel and CE Results

This option unifies each patient's current and historical electrophoresis and supportive data into a single portal for interpreting, tracking and reviewing results.



See Myeloma Module demo in action at helena.com

SCAN TO EXPLORE THE QUICKSCAN TOUCH PLUS



Scroll through to spot changes - Reports are presented as scrollable thumbnails to quickly detect progression or regression of disease.

➔ Myeloma Module Tracking Option

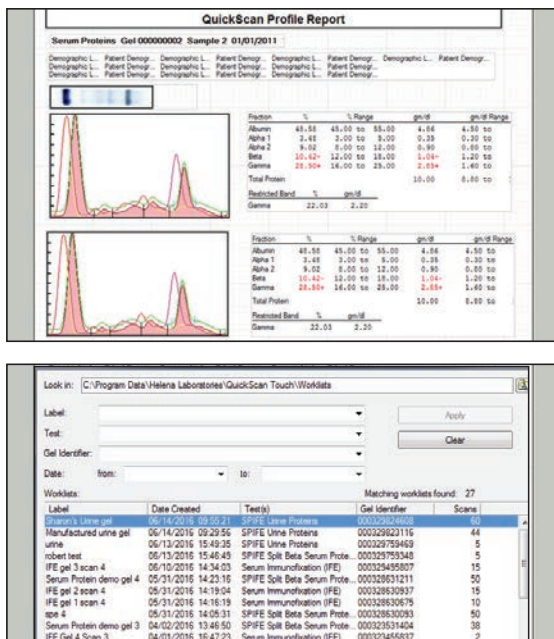


See everything in one place - Each patient's current results are auto-paired with their previous data from a virtually unlimited data store, including competitive system data. Available total protein, albumin, free light chain ratio and nephelometric data can also be incorporated for review. If it's paired, it's there.

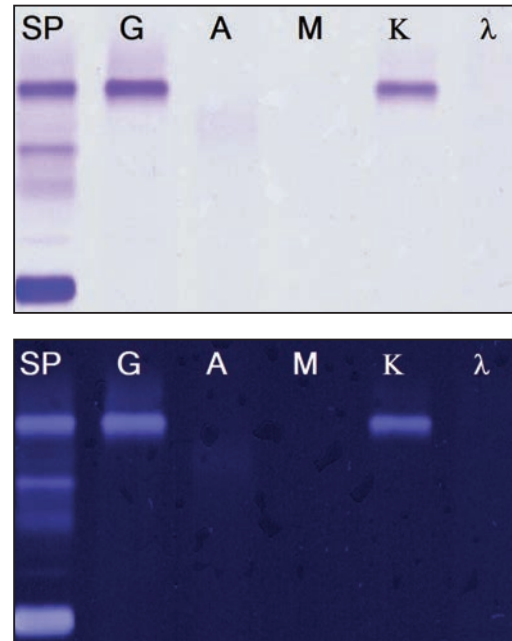
The Myeloma Module is an optional tracking feature that allows quick review and reporting of results from both the SPIFE gel and the V8 CE systems.

Initial, review and release - Queues with ID audit trail are provided to collate initial results by the operator, reports awaiting review, and final results ready to report to the clinician.

➔ Reports and Worklists



➔ Reverse Image



Reports and worklists are completely customizable. Create a single-page report that includes one patient's SPE and IFE with interpretation.

Invert the background of IFE images on screen to create a "negative" view to enhance visualization and aid in interpretation. View simultaneously with positive image system.

➔ **The QuickGel Chamber**

QuickGel manual electrophoresis products are ideal for small runs and low volume testing, separating 10 to 20 samples per run efficiently and cost effectively. Like all of Helena's premium agarose gels, **QuickGels** have built-in buffer blocks for ease of use and separations that are crisp and clear. The QuickGel Chamber features a cooled electrophoresis platen and built-in carbon electrodes. The QuickGel Chamber also serves as an incubator and dryer by simply changing out the lid.



- 1284 QuickGel Chamber
- 1274 QuickGel Applicator Kit
(Applicator, Base, Weights, Cup Tray)

QuickGel Assays

Some assays allow purchase of additional applicators to accommodate up to 20 samples per gel.

- | | | |
|-----------------------|-----------------------------|---------------|
| ■ Cholesterol Profile | ■ Acid/Alkaline Hemoglobins | ■ Proteins |
| ■ CK/LD Isoenzymes | ■ Immunofixation | ■ Lipoprotein |

RECOMMENDED



Titan Plus Power Supply

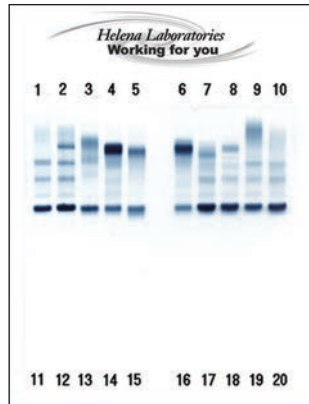
Recommended for use with the QuickGel Chamber is the completely solid state **TITAN Plus Power Supply**. A synchronous timer assures precise control with automatic end-of-run signal and shut-off.

- 1504 TITAN Plus Power Supply, 110V
- 1505 TITAN Plus Power Supply, 220V

SCAN TO EXPLORE THE QUICKGEL CHAMBER AND ASSAYS

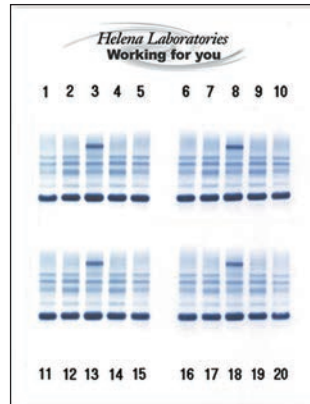


→ SPE Classic



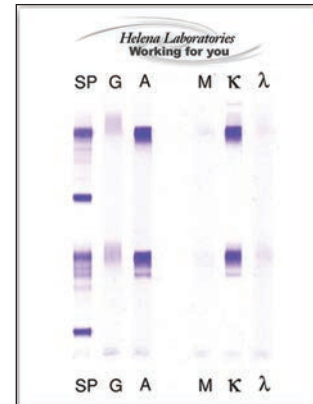
3505 10/20 sample kit
3505T 10/20 sample kit

→ SPE Split Beta



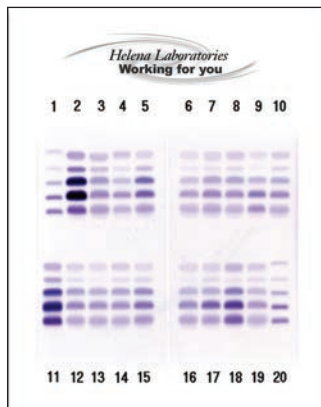
3550 10/20 sample kit
3550T 10/20 sample kit

→ ImmunoFix



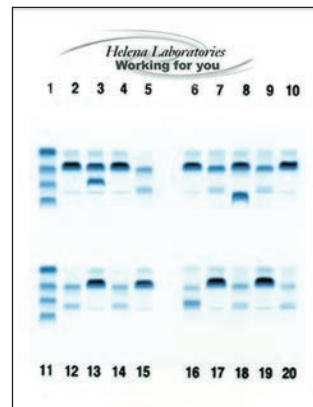
3551 1 or 2 profile kit
3551T 1 or 2 profile kit

→ LD Isoenzyme



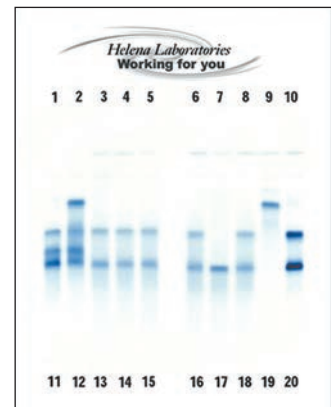
3538T 10/20 sample kit

→ Acid HB



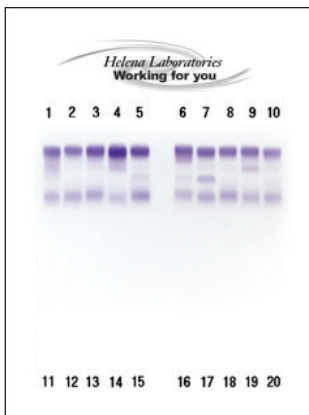
3519 10/20 sample kit

→ Alkaline HB



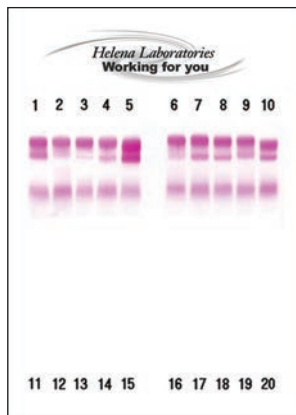
3529 10 sample kit
3529T 10 sample kit

→ Cholesterol



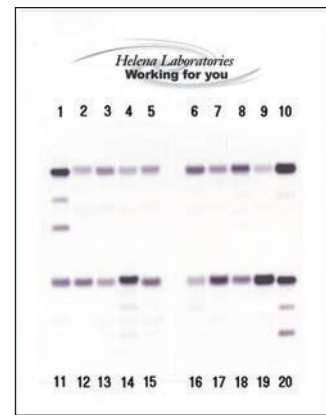
3543T 10/20 sample kit

→ Lipoprotein

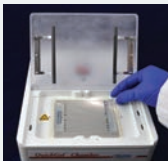


3544T 10 sample kit

→ CK Isoenzyme



3534T 10/20 sample kit



Kits contain gels and supplies for 10 samples per gel. Additional applicators are available for up to 20 samples per gel on most assays. "T" indicates template application kits.

HELENA HEMOSTASIS



PLATELETWORKS | ACTALYKE XL | MAX-ACT

27

HELENA HEMOSTASIS

- ➔ **PLATELETTWORKS** - Platelet Function Screening Pages 29-30
- ➔ **ACTALYKE ULTRA** - Activated Clotting Time Testing Pages 31-32
- ➔ **MAX-ACT** - Reagent Tubes Page 31

Plateletworks effectively determines functional platelet count and true platelet aggregation or inhibition using traditional ADP, Collagen or Arachidonic Acid agonists at the point of care. All that's needed is an impedance cell counter and Plateletworks can expediently screen for anything affecting platelet function whether mechanical or induced.



- Fast results with functional platelet count plus aggregation/inhibition % activity

- Reduces unnecessary platelet usage

- Detects effects of anti-platelet therapies



- Uses traditional ADP, Collagen and Arachidonic Acid agonists

- Excellent pre-surgical and trauma screen

- Favorable reimbursement

Plateletworks Testing In Three Easy Steps

1

Add fresh whole blood to EDTA baseline and one or more agonist tubes



2

Perform cell count on each tube



3

Compare total platelet count to functional count in under 10 minutes



SCAN TO EXPLORE HELENA PLATELETWORKS



In Practice: Large Multi-Center Study

- 12 major hospitals across Canada
- 7,402 patients undergoing cardiac surgery
- Intervention group of 3,847 patients
Control group of 3,555 patients



RESULTS: Using Plateletworks as an integrated transfusion algorithm reduced RBC transfusions by 13%, platelet transfusions by 24%, and reduced episodes of major bleeding.

Karkouti K, et al. Circulation. 2016; 134: 1152-62.

Total Functioning Platelet Count Guidelines*

| Patient/Procedure | PLT Count | Recommend PLT Transfusion |
|-----------------------------|---|---------------------------|
| Cardiac Surgery with Bypass | Non-Thrombocytopenic | No |
| | Thrombocytopenic/ Platelet Dysfunction | Yes |
| Hospitalized Adult Patients | <10 x 10 ⁹ cells/L | Yes |
| Venous Catheter Placement | <20 x 10 ⁹ cells/L | Yes |
| Diagnostic Lumbar Puncture | <50 x 10 ⁹ cells/L | Yes |
| Major Nonneuraxial Surgery | <50 x 10 ⁹ cells/L | Yes |

*Kaufman R, et al. Ann Intern Med. 2015; 162 (3): 205-213.

Platelet Aggregation Results

| Collagen | ADP | AA | Interpretation |
|----------|----------|----------|---|
| Normal | Normal | Normal | No significant effects of anti-platelet drugs or factors |
| Abnormal | Abnormal | Normal | Probable ADP inhibitor or anti-IIb/IIIa present |
| Abnormal | Abnormal | Abnormal | Probable ADP inhibitor or anti-IIb/IIIa with probable COX-1 inhibitor |
| Abnormal | Normal | Abnormal | Probable COX-1 inhibitor |
| Abnormal | Normal | Normal | Probable fibrinolysis or adhesion defect |

5860 Plateletworks ADP Kit

25 ADP Agonist Reagent Tubes
25 EDTA Baseline Tubes

5862 Plateletworks Collagen Kit

25 Collagen Agonist Reagent Tubes
25 EDTA Baseline Tubes

5864 Plateletworks Arachidonic Acid Kit

25 Arachidonic Acid Agonist Reagent Tubes
25 EDTA Baseline Tubes

5850 Plateletworks Combo-15 Kit

15 ADP Agonist Reagent Tubes
15 Collagen Agonist Reagent Tubes
15 EDTA Tubes Baseline Tubes

5852 Plateletworks Combo-25 Kit

25 ADP Agonist Reagent Tubes
25 Collagen Agonist Reagent Tubes

5854 Plateletworks Combo-10 Kit

10 ADP Agonist Reagent Tubes
10 Collagen Agonist Reagent Tubes
10 Arachidonic Acid Agonist Reagent Tubes
10 EDTA Baseline Tubes

The Gold Standard of Heparin Management

Activated Clotting Time (ACT) testing is the gold standard for monitoring high dose heparin therapy during cardiac procedures. Actalyke instruments and reagents provide the sensitivity, reliability and rapidity needed for timely treatment decisions at the point of care.

The Actalyke Ultra is a premier analyzer offering excellent reproducibility and strong data handling features. Advanced features of the Actalyke Ultra include a color touch screen, barcode scanners for patient ID and reagent audit trail, LIS interface and multiple administrative and QC features with lockout option.

All Actalyke instruments use a 2-point clot detection mechanism, enabling clot detection at the early fibrin formation stage with less variation due to clot dosing decisions, reducing post-operative bleeding.



- Operator configuration and QC lot tracking
- QC and security functions with lockout options
- Administrative software with Levey-Jennings
- Print locally or via network
- 2-point clot detection
- Color LCD touch screen interface
- Internal and external barcode readers
- Barcoded reagent audit trail
- USB, WiFi, and Bluetooth capable; LIS interface - Telcor, LDS, RALS
- Large data storage; secure data transfer
- Portable: 10-inch footprint

- 5772 Actalyke Ultra, 110/220V
- MAX-ACT MAX-ACT Reagent Tubes (50/box)
- G-ACT Glass Bead ACT Reagent Tubes (50/box)
- K-ACT Kaolin ACT Reagent Tubes (50/box)
- C-ACT Celite ACT Reagent Tubes (50/box)





The **MINI II** is the simplest, least expensive ACT instrument available, yet it retains high sensitivity, 2-point clot detection for greatest reliability. Performance, linearity and CVs are excellent. It's ideal for use in the catheterization lab, dialysis or the surgical suite. Optional battery pack available.

6" Footprint - The MINI II features a very small footprint, but has a very large high visibility screen. Operation of the MINI II is extremely simple. Just insert the ACT reagent tube containing whole blood and push the button.

Full Cross-Compatibility - The MINI II is fully compatible with all ACT tubes. Helena offers a full line of Actalyke ACT tubes, including traditional glass bead, kaolin and celite, plus new MAX-ACT.



- 2-point clot detection
- Fully compatible with all ACT tubes
- Large, high-visibility display
- Simple operation
- Easy clean, removable tube holder
- Lightweight; small 6-inch footprint
- Optional battery pack

SCAN TO
EXPLORE
ACTALYKE
MINI II



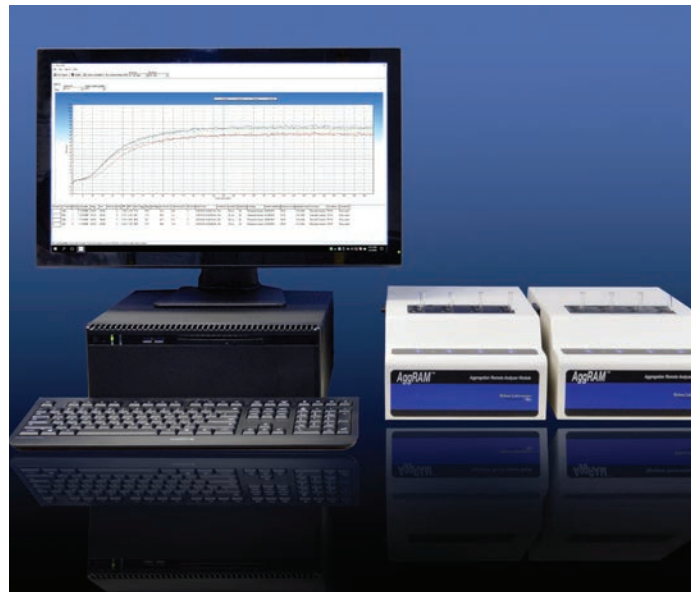
ELECTRONIC CLOTTING TUBE



The rechargeable ECT simulates patient sample clots at three therapeutic heparin levels (100, 300 and 500 seconds) for daily QC of all Actalyke instruments.

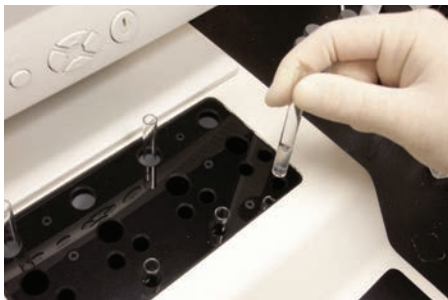
5763 Actalyke Mini II Analyzer, 110/220V
XL-ECT Actalyke Electronic Clotting Tube

AggRAM for platelet aggregation testing couples four-channel laser optic modules with an easy to use interface and powerful data handling features. Up to two modules can be run per Remote Analyzer computer, providing up to eight channels to handle your tough workload demands. Laser diode technology in conjunction with an improved algorithm for slope calculation provide exceptional precision for ristocetin cofactor testing. Easily generate Levey-Jennings charts, standard curves, etc. with an integral action log and evaluate and chart quality control for ristocetin cofactor based on Westgard rules.

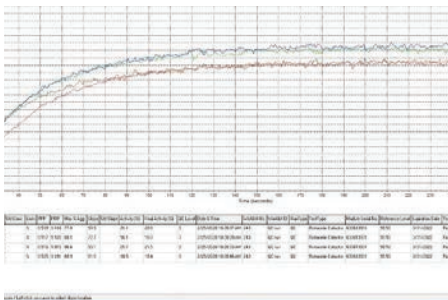


The Gold Standard
Advanced Modular System for Platelet Aggregation and Ristocetin Cofactor

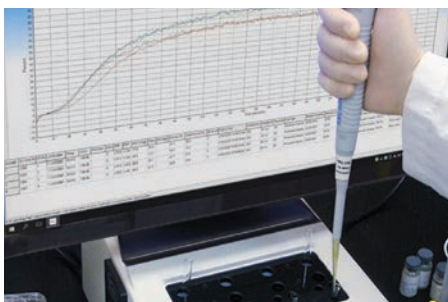
➔ Data Handling Features



➔ Customized Reports



➔ Quality Control



- On-screen prompts step users through testing
- Multi-window viewing greatly increases efficiency
- Barcode and LIS capabilities
- Three password levels, from user to administrator
- Quick access to data input screens
- Automatically calculates slope and max percent aggregation
- Displays/prints lag phase
- Can automatically calculate and smooth curves
- Reference overlay capability

SCAN TO EXPLORE THE AGGRAM ANALYZER



1484 AggRAM Analyzer
1486 AggRAM Module



AggRAM is complemented by a full line of Helena reagents for platelet aggregation and ristocetin cofactor, plus assayed reference plasmas. Reagents can be validated on other analyzers and technologies.



➔ AggRam Platelet Aggregation Reagents

Helena's platelet reagents provide outstanding stability and performance. Reagents are optimized for use with AggRAM, but may be used on any turbidometric aggregometer of similar quality.

| | |
|------|---|
| 5364 | Arachidonic Acid, 2 x 1 mL |
| 5366 | ADP, 2 x 1 mL |
| 5367 | Epinephrine, 2 x 1 mL |
| 5368 | Collagen, 2 x 1 mL |
| 5369 | Platelet Aggregation Kit (5366, 5367, 5368) |
| 5199 | Ristocetin (for RIPA), 10 x 0.5 mL |
| 5365 | Tris-Buffered Saline, 1 x 125 mL |



➔ Ristocetin Cofactor Reagents

Ristocetin Cofactor is more sensitive than RIPA to mild reductions in vWF and is more often used to monitor therapy in vWD patients. Kit includes ristocetin, formalized platelets, S.A.R.P., abnormal control and tris-buffered saline.

| | |
|------|---|
| 5370 | Ristocetin Cofactor Kit, 50 tests |
| 5371 | Lyophilized Platelets, 5 x 5 mL |
| 5373 | Ristocetin Cofactor Abn Control, 5 x 0.5 mL |
| 5372 | Ristocetin (10 mg/mL), 5 x 1.5 mL |
| 5365 | Tris-Buffered Saline, 1 x 125 mL |
| 5356 | Lyophilized Platelets, 5 x 10 mL |



Cascade M4 is a semi-automated hemostasis analyzer that is ideal for all routine clotting assays - PTs, aPTTs, thrombins, fibrinogens, and factor assays.

- 1711 Cascade M4 Analyzer
- 1718 Cascade M4 Cuvettes
- 1720 Printer Paper / Cascade M4



➔ Fibrinogen and Thrombin Time

Helena Fibrinogen and Thrombin Time Assays are well-suited to automated, semi-automated and manual systems.

- 5377 Thrombin Time Reagent, 250 tests
- 5376 Fibrinogen Assay Kit, 100 tests
- 5374 Thrombin Reagent, 200 tests
- 5375 Owren's Veronal Buffer
- 5379 Fibrinogen Calibrator

➔ Prothrombin Time

With its low ISI value of 1.0 to 1.2, Helena's Thromboplastin-LI is just right for your laboratory.

- 5248 Thromboplastin-LI, 250 tests
- 5249 Thromboplastin-LI, 500 tests



➔ Activated Partial Thromboplastin Time

Offering quality and economy, all reagents are convenient, ready-to-use liquids with soluble ellagic acid activator.

- 5388 aPTT-SA & CaCl₂, 250 tests
- 5389 aPTT-SA & CaCl₂, 500 tests
- 5387 aPTT-SA, 1000 tests
- 5386 CaCl₂, 1000 tests

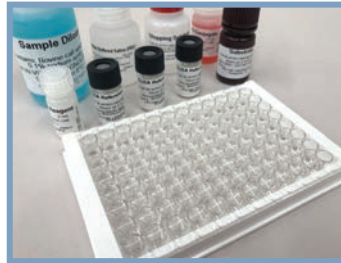
SCAN TO EXPLORE THE CASCADE M4



→ Factor Deficient Substrates

Helena offers quality factor deficient substrates with <1% residual factor activity. Each kit includes 10 x 1 mL vials.

- 5190 Factor II Deficient Substrate - Bovine
- 5191 Factor V Congenital Deficient Substrate
- 5192 Factor VII Congenital Deficient Substrate
- 5193 Factor VIII Congenital Deficient Substrate
- 5194 Factor IX Congenital Deficient Substrate
- 5195 Factor X Congenital Deficient Substrate
- 5196 Factor XI Congenital Deficient Substrate
- 5197 Factor XII Congenital Deficient Substrate



→ Specialty Assayed Controls and Reference plasma

S.A.R.P. is a reference plasma prepared from a healthy donor pool and calibrated against either ISTH Secondary Coagulation Standard or WHO International Standard.

Specialty Assayed Controls are available in 2 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, free & total Protein S, Ristocetin Cofactor, and vWF:Ag.

- 5301 S.A.C.-1 (Normal), 10 x 1 mL
- 5302 S.A.C.-2 (Abnormal), 10 x 1 mL
- 5185 S.A.R.P., 10 x 1 mL

→ ELISA Assays

- 5290 vWF:Ag ELISA Kit, 96 tests
- 5291 Protein C ELISA Kit, 96 tests
- 5292 Protein S (Free & Total) ELISA Kit, 96 tests
- 5293 Monoclonal Free Protein S ELISA Kit, 96 tests



→ PT, APTT and Fibrinogen Controls

Norm-Trol 1 is a lyophilized normal level control for PT, aPTT and Fibrinogen assays.

Ab-Trol 2 and Ab-Trol 3 provide moderately elevated and very elevated, respectively, PT and aPTT controls.

- 5186 Norm-Trol 1, 10 x 1 mL
- 5187 Ab-Trol 2, 10 x 1 mL
- 5183 Ab-Trol 3, 10 x 1 mL

SCAN TO
EXPLORE
HELENA'S
HEMOSTASIS
PRODUCTS



FOBT/ PLASTICS



➔ COLOSCREEN / COLOCARE - Occult Blood Tests ----- Page 38

➔ LABCON PLASTICS - Disposable Plastics ----- Page 39-40

→ ColoScreen-ES



Leading medical institutions enjoy great performance, and even greater savings, with ColoScreen and ColoScreen-ES occult blood tests.

ColoScreen-ES is an extra-sensitive (0.3 mg/g feces) guaiac test with vivid color development for easier interpretation.

- 5086 100 ES Singles Lab Pack
- 5085 80 ES Triples w/Mailer
- 5088 ES Developer, 20 x 15 mL

→ ColoScreen



ColoScreen offers the sensitivity and specificity of traditional guaiac methods (10 mg/g) at a lower cost.

- 5076 1000 Singles Lab Pack
- 5072 100 Singles Lab Pack
- 5077 Developer, 20 x 15 mL
- 5078 Developer, 50 x 2 mL
- 5073 80 Triples w/Mailer
- 5079 Perforated Tape/Developer

→ ColoCARE



ColoCARE is clean, simple and effective with higher compliance rates than traditional guaiac slide tests.

ColoCARE is an easy, economical way to screen for fecal occult bleeding. ColoCARE's sensitivity is roughly equivalent to traditional guaiac FOBT. Helena also supplies the support materials needed for successful screens. Educational handouts, wall charts, and promotional materials are available free of charge with your ColoCARE order. With ColoCARE, there is no stool handling or laboratory processing.

- 5651 Office Pack - 50 Take-Home Kits, 3 test pads each
- 5650 Screening Pack - 250 Take-Home Kits, 3 test pads each

SCAN TO
EXPLORE
HELENA'S
OCULT
BLOOD
PRODUCTS



→ C-Pette® and C-Pette-E

The new C-Pette and C-Pette-E make delivering samples into the test cards and cassettes used by point of care analyzers easy and efficient, while reducing risk of biohazard exposure. Original C-Pette features an easy to insert metal cannula, while the all-plastic C-Pette-E is a more economical alternative. C-Pettes are ideal for use with the Abbott i-STAT® test cartridges.

i-STAT is a registered trademark of the Abbott Group of Companies

Original C-Pette, 500 pieces - Cat. No. 7630-500-000-9

C-Pette-E, 500 pieces - Cat. No. 7625-500-000-9



REDUCED RISK OF BIOHAZARD EXPOSURE



C-PETTE AND U-PETTE ARE AVAILABLE DIRECTLY FROM LABCON

→ U-Pette®

U-Pettes provide an easy way to dispense blood into a test card or cassette, like our Cascade Abrazo or Abbott's iSTAT, without uncapping the tube. The unique tab design allows blood to be dispensed two different ways as needed.

For larger samples, place the tip of the U-Pette all the way to the bottom of the sample well. Counterpressure with the tabs while pushing down on the tube to dispense sample as needed.

For small volumes, hold the tip over the sample port to dispense sample into the port by using the tabs to counterpressure like a syringe.

U-Pette, 100 pieces - Cat. No. 7626-540-000-9

U-Pette, 500 pieces - Cat. No. 7626-500-000-9



EASY DISPENSING WITHOUT UNCAPPING TUBE

SCAN TO
EXPLORE
HELENA'S
PLASTICS
PRODUCTS



→ H-Pette® and H-Pette®-II



H-Pette and H-Pette II provide a safe and easy way to dispense a controlled drop of blood to a glass slide for preparing differential slides.

New H-Pette II features a metal cannula for ease of insertion through the stopper of collection tubes.

Using H-Pette is simple. Just insert H-Pette into the stopper of any size blood collection tube, invert tube and transfer a drop of blood to a glass slide or test cassette. Original molded H-Pettes are also available with an integral blade for making differential slides. H-Pettes remain in place in the stopper and are disposed of with the tubes. They can also be easily removed if necessary.

- 3611 H-Pette without Blade, 1000 pieces
- 3612 H-Pette with Blade, 1000 pieces
- 3613 H-Pette Remover
- 3615 H-Pette II without Blade, 1000 pieces



H-PETTES ARE AVAILABLE FROM HELENA LABORATORIES AT 1-800-231-5663

→ New! Urinesafe Urine Collection Cup



Finally, a urine cup that can withstand a pneumatic tube transfer system without springing a leak or breaking the bank! Those are two of the design specifications of this new specimen cup from Labcon.

Taking cues from their expertise with centrifuge tubes, a gasket integral to the lid provides a tight, leak-resistant seal. High-quality plastic and precision engineering mean the cup won't shatter during transfer and the lid threads mesh cleanly and smoothly.

90 mL, Non-Sterile (100 cups)
Cat. No. 4111-840-000-9

90 mL, Sterile (100 individually wrapped cups)
Cat. No. 4111-165-000-9

120 mL, Non-Sterile (100 cups)
Cat. No. 4112-840-000-9

120 mL, Sterile (100 individually wrapped cups)
Cat. No. 4112-165-000-9

Helena is Here to Serve You

We encourage you to use our toll free telephone lines for information, orders, and consultations. Our quality products and services are available worldwide. Distribution is organized through companies specialized in the marketing and servicing of Helena's products.



MAILING ADDRESS

Helena Laboratories
1530 Lindbergh Dr.
Beaumont, Texas 77707-4131



PHONE AND FAX

In USA: 800-231-5663
Outside USA: 409-842-3714
FAX General: 409-842-6241
FAX Orders: 409-842-9561
FAX Tech Service: 409-842-1874



EMAIL

orderentry@helena.com
electronicservice@helena.com
technicalservice@helena.com



www.helena.com



www.helena.com | 800-231-5663
helena@helena.com

Distributed by:



**INTER
MEDICO**

50 Valleywood Drive
Markham, Ontario L3R 6E9
800.387.9643
800.268.1150 Français
905.470.2381 Fax
inter-medico.com

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