

2023
PRODUCTS ▲

HELENA PRODUCT HIGHLIGHTS



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www.helena.com • helena@helena.com



PRODUCT HIGHLIGHTS 2023

Thank you for choosing to look to Helena for your laboratory's testing needs! Helena is committed to providing innovative, cost-effective solutions to the issues facing today's laboratories. I'm thrilled that the **SPIFE Nexus** gel electrophoresis system has been well received as one solution to high labor costs and the shortage of skilled workers in the lab. SPIFE Nexus provides total walk away automation for immunofixation without compromising the inherently greater sensitivity of IFE over capillary methods for typing monoclonals. In addition to IFE, SPIFE Nexus assays for proteins, hemoglobins, and our direct cholesterol profile assay are now available with isoenzymes coming soon.

Speaking of proteins and hemoglobins, the **V8 Nexus** capillary electrophoresis system offers results comparable to any currently available clinical CE system. Looking forward, our new **V8 Ultra CE system**, targeted for release in early 2024, is being engineered from the ground up to eclipse current CE technology in terms of analytical sensitivity, optics detection, resolution, and capillary-to-capillary reproducibility.

Our strides are not only in instrumentation but also in analyte chemistry. Our **direct cholesterol** assay, which measures the cholesterol content of HDL, LDL, VLDL and **Lp(a)-c**, is superior to mass assays for Lp(a) because there is no interference from isoform size. Therapeutic drugs for treating elevated Lp(a) are in the final stages and the need for accurate testing is critical. In R&D, clinical trials have begun on a quantitative **LDL-P Particle Number** assay that uses IFE with anti-apolipoprotein B antisera which we hope to automate on the SPIFE Nexus. We've continued development of our **SPIFE Anti-Dara** and **Anti-Elo** antisera for removing the interfering effects of myeloma drugs from blood specimens for IFE testing and blood banking. Last year also saw the release of the **SPIFE Touch Alpha-1 Antitrypsin** assay for A1AT genotyping of up to 40 samples per gel.

As well we are addressing the needs of point of care hemostasis testing. We hope to have the new **Actalyke Ultra** portable analyzer for activated clotting time (ACT) testing available in 2023. We offer a full line of ACT tubes including glass bead, kaolin, celite or multi-activator MAX-ACT reagents and are expanding our production capacities to meet demand. **Plateletworks** usage continues to expand into departments all over the hospital, from ER to ICU to Neurology to the Cath Lab as well. It's a fast and easy way to do a functional platelet screen with just an impedance cell counter.

No doubt your laboratory is a hub of activity and the people who run it have lots of demands on their time so I thank you for taking the time to see how Helena can help. My hope is that you will bring us your lab issues! We need to know your needs in order to meet them. We look forward to hearing from you!

Best personal regards,

Tipton Golias

Chairman and Founder



JUMP TO WEBSITE



03

PAGE ▲

NEXUS SERIES

The SPIFE Nexus and the V8 Ultra CE truly are transcending links to totally automated electrophoresis, whether you prefer gel, capillary, or both.

13

PAGE ▲

TOUCH SERIES

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.

25

PAGE ▲

HEMOSTASIS

Outstanding performance, stability and value are the hallmarks of Helena's hemostasis products. In addition to point of care assays for platelet function screening and ACT testing, we also offer a full line of laboratory-based instruments, reagents and assayed controls for classic coagulation, platelet aggregation and ELISA testing.

35

PAGE ▲

FOBT/PLASTICS

Helena occult blood products have been a trusted brand in physician offices and clinical laboratories since 1981, providing great performance and even greater savings over other brands.

NEW! V8 ULTRA CE

New 8-channel CE system provides superior results and stunning reproducibility. **See page 12**

SPIFE NEXUS AUTO GEL ELP

Reimagine gel electrophoresis: Walkaway processing of full-sized gels with auto everything - from sampling to antisera application to scanning - with crystal clear results. **See page 5**

NEXUS MAX AUTO CE

Nexus MAX provides walkaway automation for high throughput CE analysis. **See page 10**

ALPHA-1 ANTITRYPSIN

American Lung Association recommends all individuals with COPD or emphysema be tested for Alpha-1 Antitrypsin deficiency. **See page 19**

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. **See page 22**



NEXUS SERIES

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 automates electrophoresis, whether you prefer gel, capillary or both.



SPIFE NEXUS

FULLY AUTOMATED GEL ELECTROPHORESIS

PAGES 5-8



V8 NEXUS

AUTOMATED CLINICAL CAPILLARY ELECTROPHORESIS

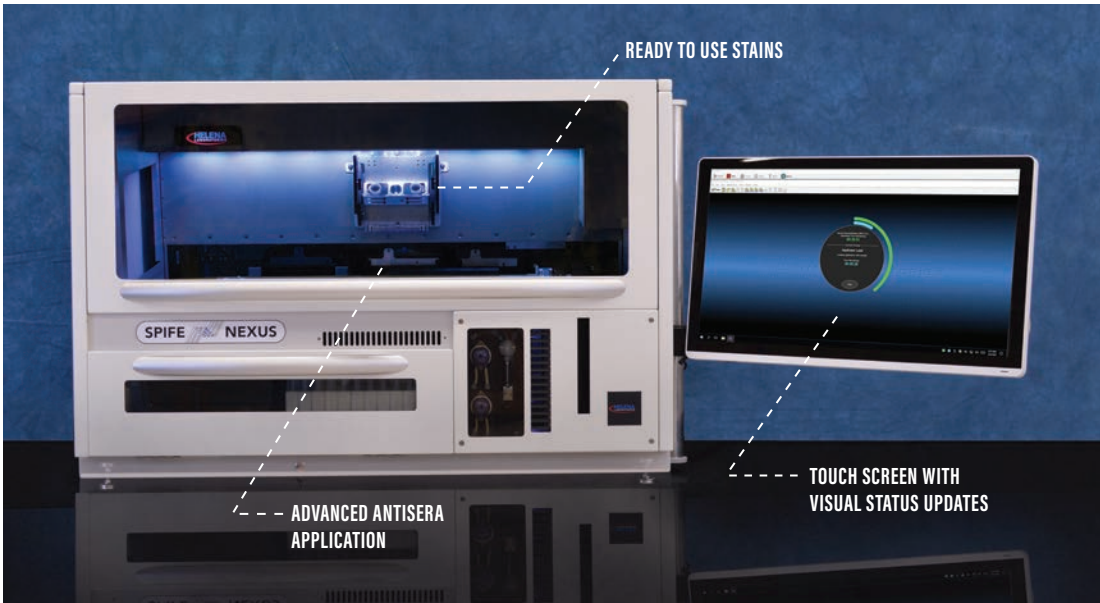
PAGES 9-11



V8 ULTRA CE

NEW ADVANCED CLINICAL CAPILLARY ELECTROPHORESIS

PAGE 12



**AUTOMATED,
RELIABLE AND
EASY TO USE**



Load reagents and up to 100 samples



Hit Start and walk away



Beginning to end automation

THE NEW SPIFE NEXUS ▶ **Transformative Technology for Gel Electrophoresis**



FEATURE

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!

We've taken the expertise gleaned from sixty years in the field, added five years of intentional engineering and created a system that is automated, reliable, and easy to use.

Based on our full-sized SPIFE agarose gel platform, SPIFE Nexus reimagines all processing steps from sample handling to final results with linking to capillary results as well. A full run can be completed with just five minutes 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

JUMP TO DIGITAL



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



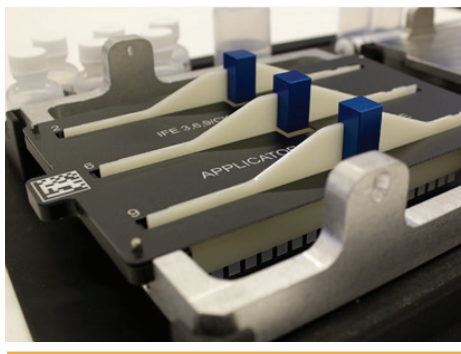
SCAN TO EXPLORE THE SPIFE NEXUS OR TO SCHEDULE A VIRTUAL DEMO.

Full Automation for Walkaway Processing and Analysis



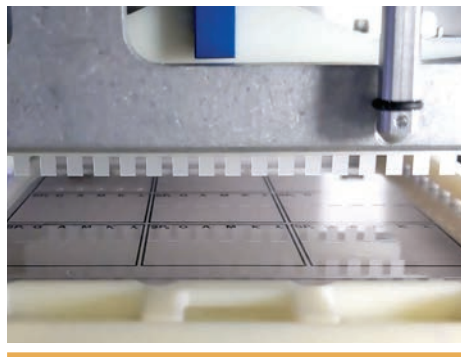
- Load reagents and samples and walk away
- All gel processing and scanning are automated
- Visual status updates for monitoring at a glance

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

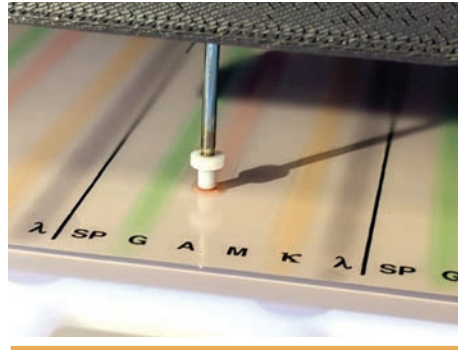
Auto Sampling and Application



- 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

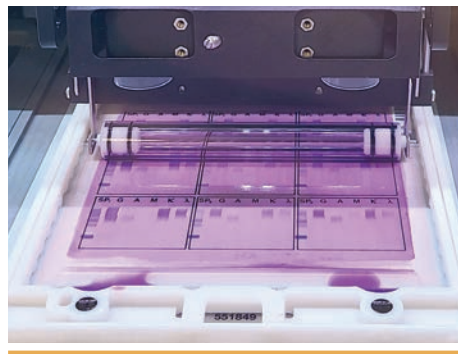
Revolutionary Antisera Application System

- 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



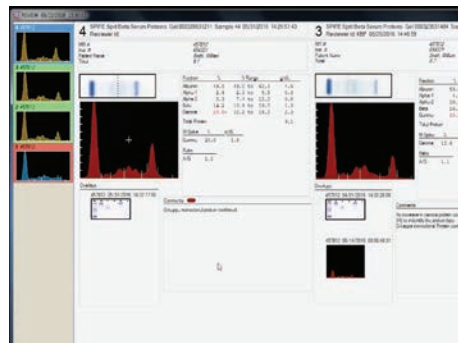
Ready-To-Use Pre-Packaged Stains

- 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



SPECIFICATIONS

- 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

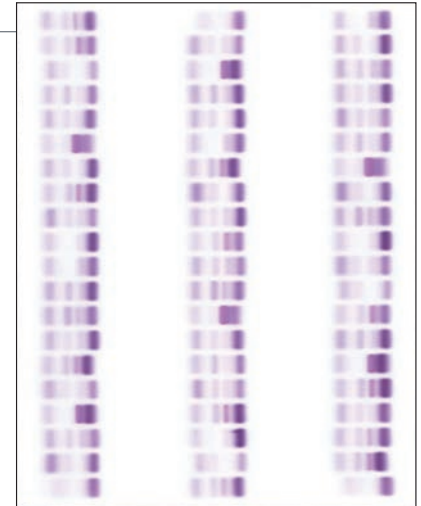
Nexus Cholesterol totally automates direct measurement of the cholesterol content of LDL, HDL, VLDL and Lp(a). Lp(a)-c does not suffer the inaccuracies of Lp(a) mass assays caused by isoform size variations. About 20% of the population are genetic expressors of highly atherogenic Lp(a) and distinguishing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

New Assays

- Cholesterol Profile with Lp(a)-c
- Alkaline Hemoglobins
- Acid Hemoglobins

SPIFE Nexus Cholesterol

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



Future Tests

- CK Isoenzymes
- LD Isoenzymes
- Alkaline Phosphatase Isoenzymes

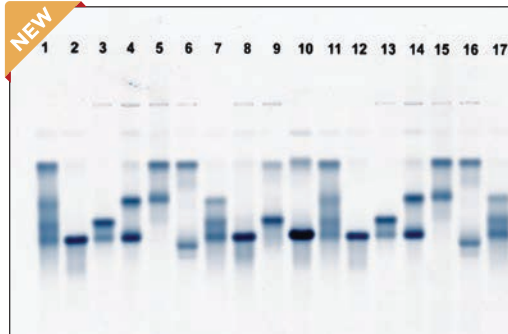
EDUCATIONAL



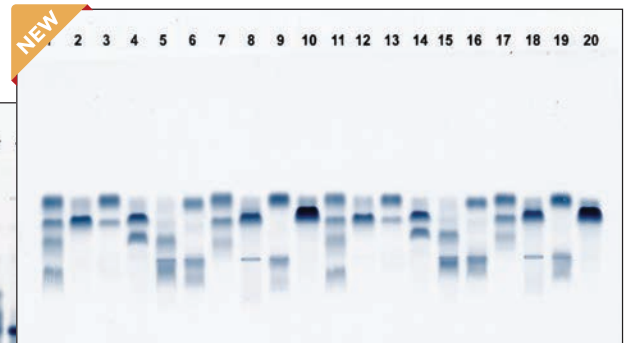
New Hb wall chart provides handy reference.



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.



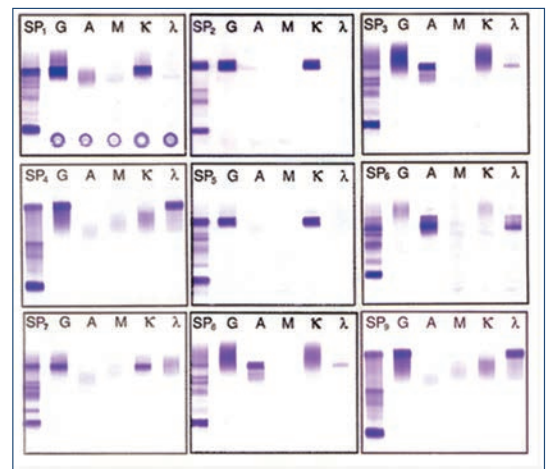
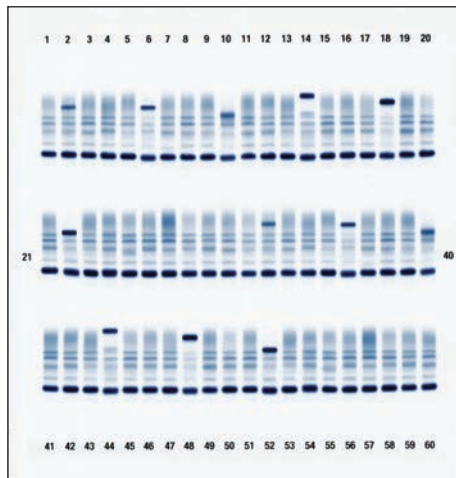
SPIFE Nexus Alkaline Hb 2415 20 sample kit



SPIFE Nexus Acid Hb 2418 20 sample kit

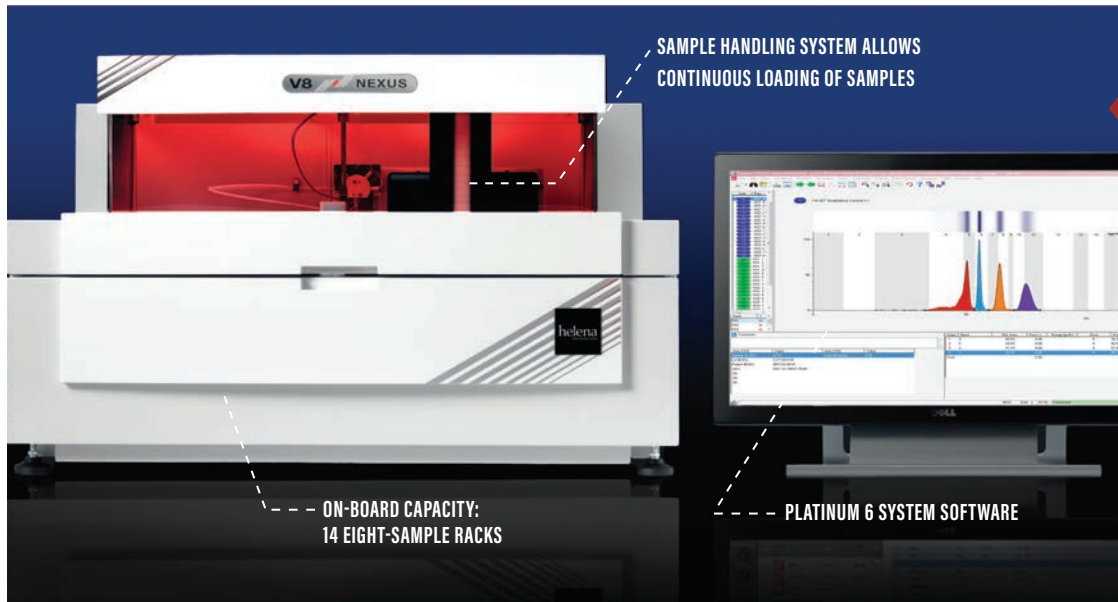
Current Assays

- Serum/Urine proteins
- Serum/Urine IFE



SPIFE Nexus ImmunoFix
 2401 6 profile kit
 2409 9 profile kit
 2408 15 profile kit

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



SAMPLE HANDLING SYSTEM ALLOWS CONTINUOUS LOADING OF SAMPLES

ON-BOARD CAPACITY: 14 EIGHT-SAMPLE RACKS

PLATINUM 6 SYSTEM SOFTWARE

ENGINEERED TO PROVIDE EFFICIENT, WALKAWAY AUTOMATION



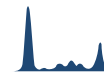
Run 8 capillaries simultaneously



10 open reagent positions



Automatic capillary conditioning



Dovetails with SPIFE Nexus for integrated gel/CE reporting

FULLY AUTOMATED CE

► Proteins, Immunodisplacement, Hb



ASSAYS

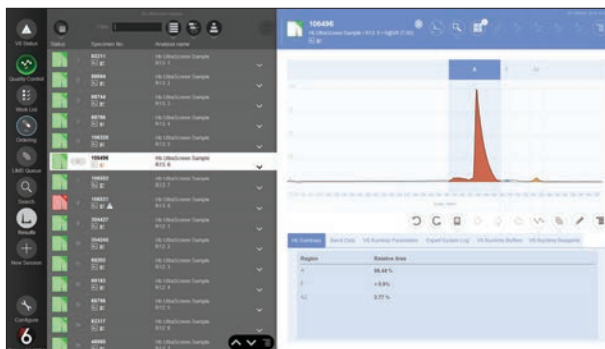
NEXUS CE ASSAYS

- Hemoglobins
- Immunodisplacement
- Serum Protein 6-band

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.

► New! 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 hemoglobins 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.



V8 NEXUS FAST FACTS

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

88

Tests/Hour
Proteins Fast CE

14

Tests/Hour
Immunodisplacement

16

Tests/Hour
Hemoglobins

8

Capillaries Run
Simultaneously

JUMP TO DIGITAL



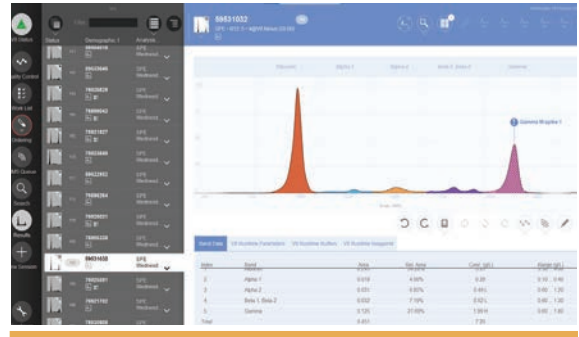
SCAN TO EXPLORE THE V8 NEXUS OR TO SCHEDULE A VIRTUAL DEMO.



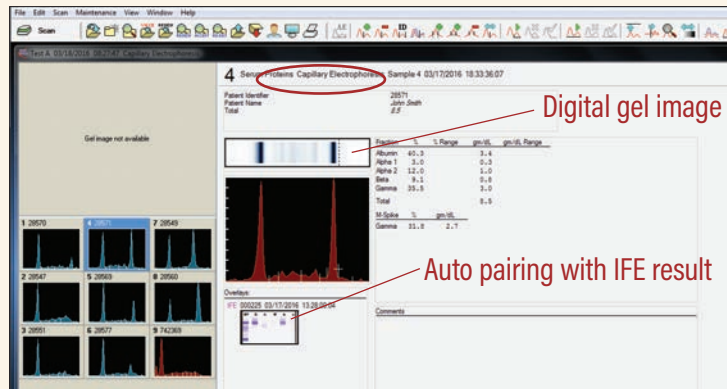
Platinum 6.1 / QuickScan Software

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 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

PRODUCT NO.

1845
Nexus MAX Sample Bay

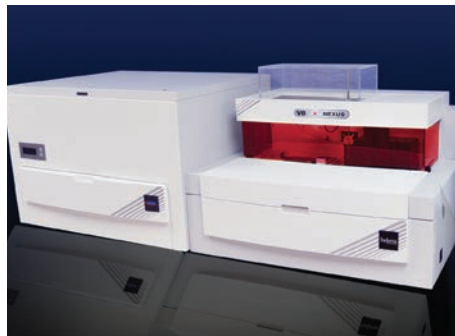
JUMP TO DIGITAL



SCAN TO EXPLORE THE NEXUS MAX.



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



Automated High Volume Sample Handling

V8 NEXUS FEATURES

Automated high throughput capacity

Fully automated capillary conditioning and maintenance

Greatly reduced waste

Real time monitoring

Full audit trail accountability

Integration of CE and zone data with advanced reporting

PRODUCT NO.

1803
V8 Immunodisplacement Kit

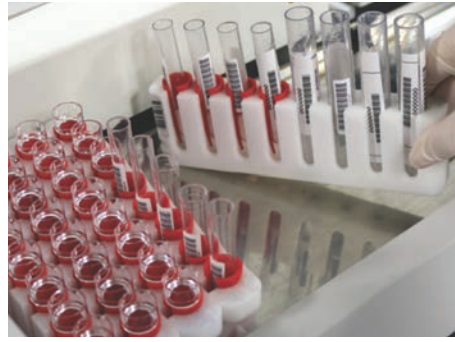
1805
V8 Serum Protein SPE Kit

1828
V8 Nexus Hemoglobin
Ultrascreen Kit

FEATURES

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

Sample Handling



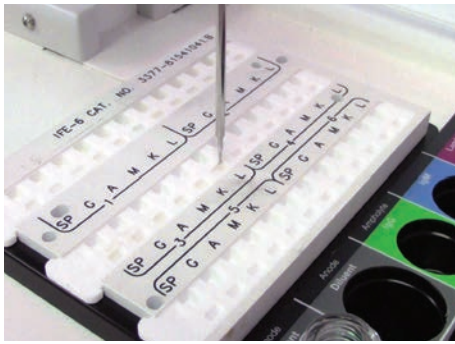
- 6 buffer positions
- Ten on-board reagent positions
- Multiple method capability
- Full audit traceability
- Automated buffer replenishment
- Efficient walkaway automation
- One buffer bottle purged at a time

Buffer Handling



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

Reflex to Gel

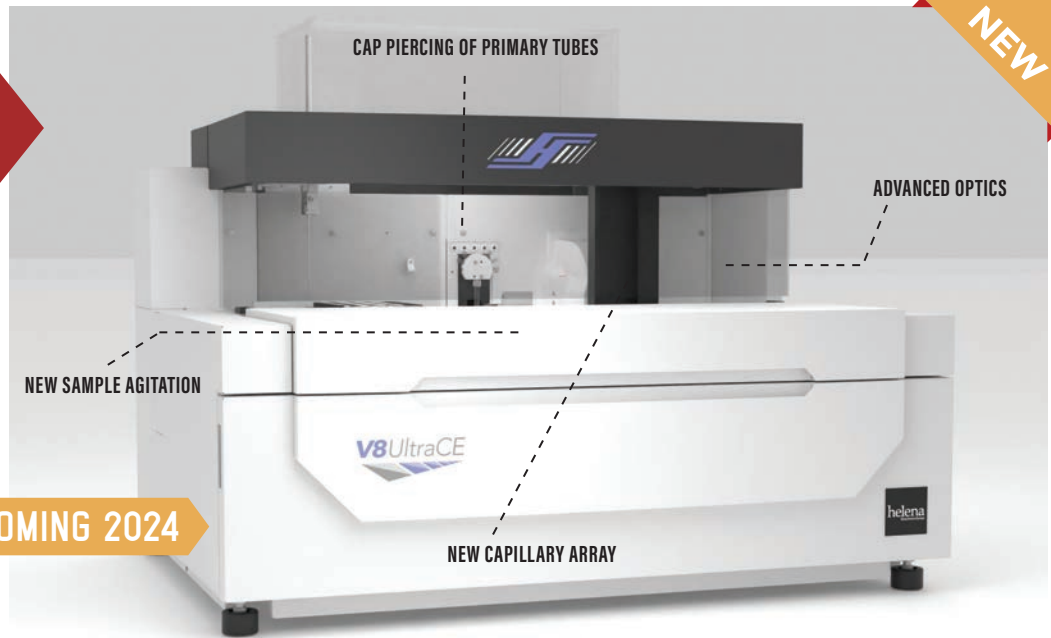


- User-scheduled maintenance – ready to go when techs arrive
- Fully automated maintenance procedures
- Automated purging for capillary conditioning
- Auto system check

Auto Maintenance



RE-ENGINEERED TO
PROVIDE EFFICIENT,
WALKAWAY AUTOMATION

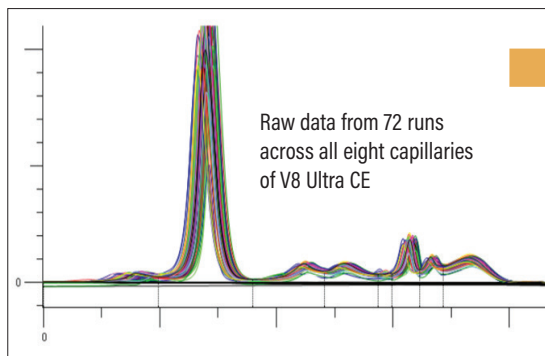


COMING 2024



New Sample Processing Features

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



New 8-Capillary Array and Optics Design

- Smaller and shorter caps with active cooling and LED+deuterium light source
- Array provides greater resolution, reduced noise, improved separation
- Exceptional capillary to capillary reproducibility

V8 ULTRA FAST FACTS

80
Proteins/Hour

18
ID/Hour

50
Hb/Hour



TOUCH SERIES

INTEGRATED SOLUTION | BROAD MENU | WORKHORSE

HELENA TOUCH SERIES



ESH TOUCH

ELECTROPHORESIS SAMPLE HANDLER

PAGE 16



SPIFE TOUCH

THE NUCLEUS OF THE TOUCH SYSTEM

PAGES 17-20



QUICKSCAN TOUCH PLUS

DENSITOMETRY & DATA MANAGEMENT

PAGES 21-22

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, provides integration with the V8 capillary system and provides ease of interpretation with the Myeloma Module for reporting results.

JUMP TO DIGITAL



SCAN TO EXPLORE THE TOUCH SERIES.



AUTOMATED FRONT-END SPECIMEN PROCESSING

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.

JUMP
TO DIGITAL

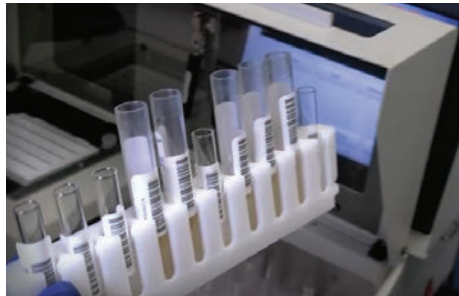


SCAN TO
EXPLORE
THE ESH
TOUCH.



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.

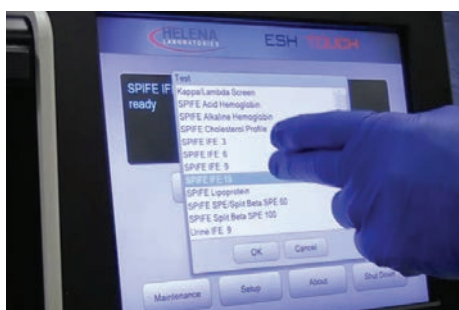
Place Racks into the Instrument



Install a Sample Tray



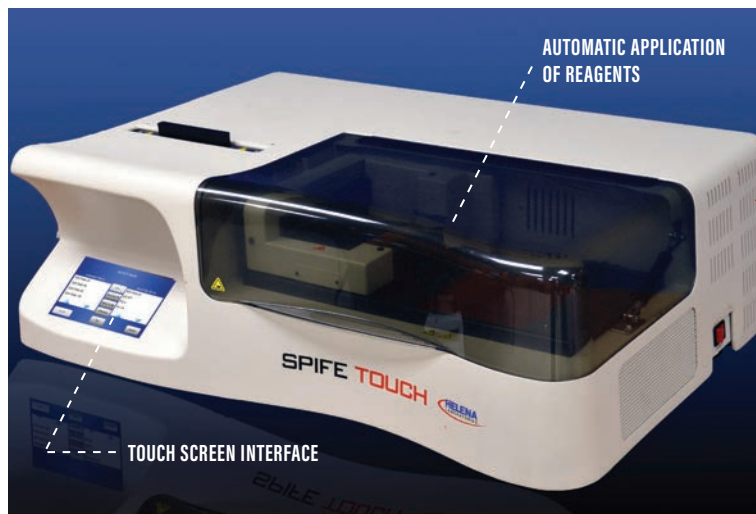
Select the Test - Push Start



HIGHLIGHTED FEATURES

- 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 and oligoclonal banding. A touch screen interface, faster processing and organized workflow means greater efficiency over previous generations of SPIFE and other brands of electrophoresis analyzers.



WORKHORSE SOLUTION FOR CLINICAL GEL ELECTROPHORESIS

SPIFE TOUCH ► Highlighted Features

- 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

Get Tested:

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



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

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*

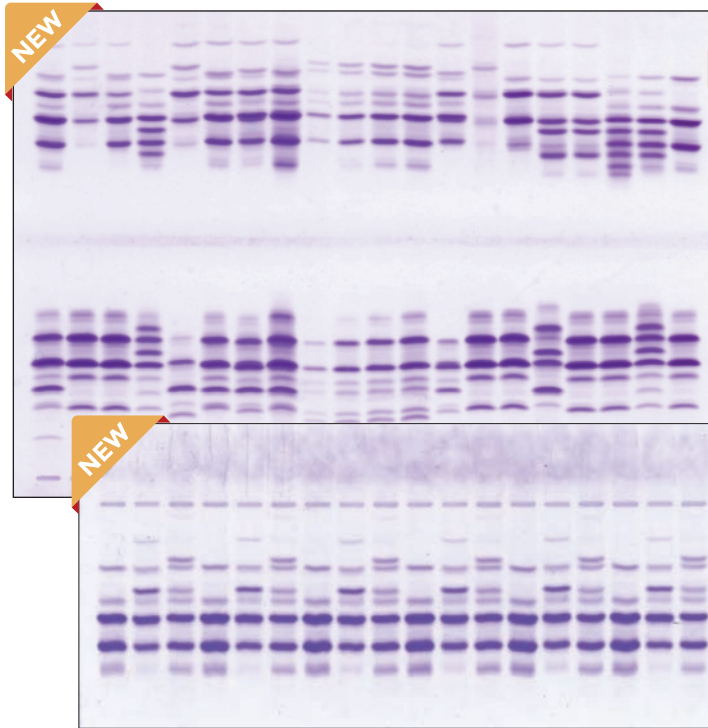
*NIH National Heart, Lung and Blood Institute

JUMP TO DIGITAL



SCAN TO EXPLORE THE SPIFE TOUCH.





SPIFE Alpha-1 Antitrypsin

- American Lung Association recommends all individuals with COPD or emphysema be tested for A1AT deficiency
- SPIFE A1AT assay separates up to 20 or 40 samples per gel
- Identifies all phenotypes clinically relevant to lung and liver disease

SPIFE A1AT | 3432 40 sample kit
3433 20 sample kit

JUMP TO DIGITAL



SCAN TO EXPLORE THE A1AT ASSAY.

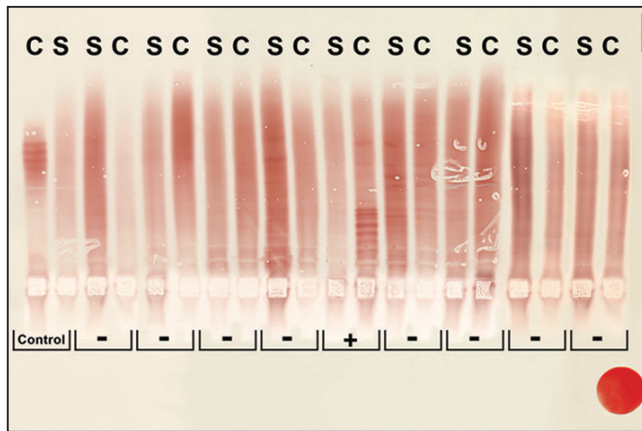


■ Separate 40 samples per SPIFE gel

■ 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

JUMP TO DIGITAL



SCAN TO EXPLORE THE IgG IEF ASSAY.



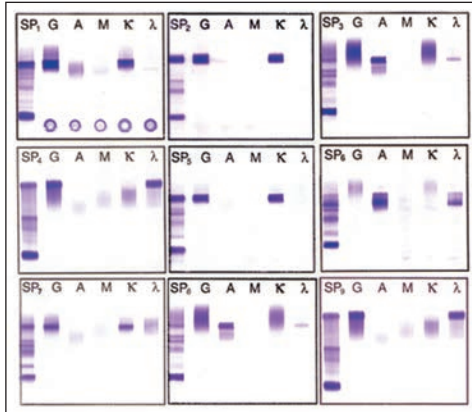
McDonald Criteria 2017 Revision

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.



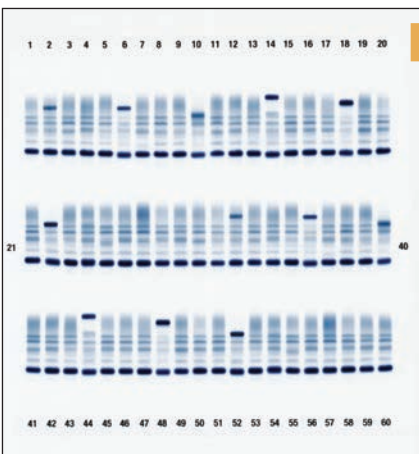
ImmunoFix Profile

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; no concentration needed for urines

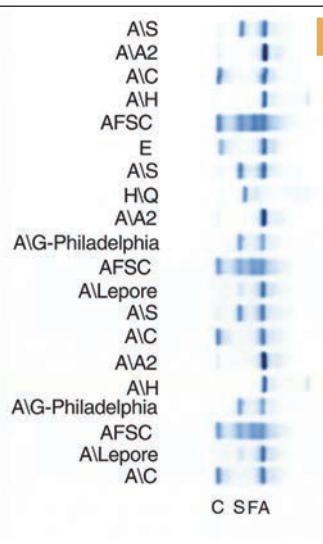
Gel sizes for every workload – up to 100 samples per gel

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

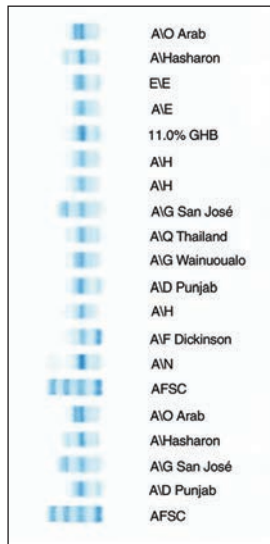
3460	60	sample kit
3461	40	sample kit
3462	20	sample kit
3405	10/20	sample kit



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.

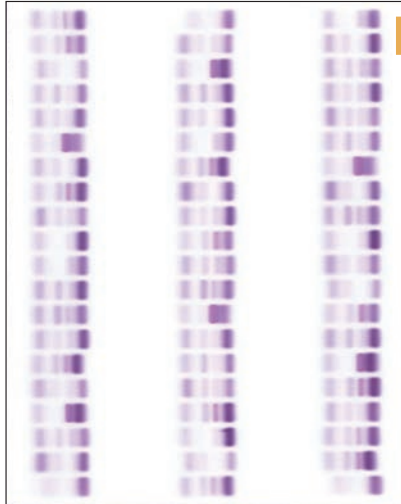
3418	20	sample kit
3419	10/20	sample kit

JUMP TO DIGITAL



SCAN TO EXPLORE SPIFE TOUCH ASSAYS.





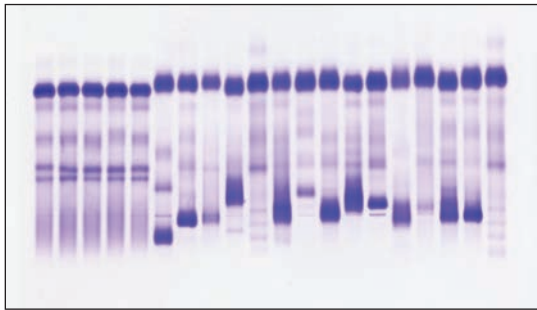
▶ **Cholesterol Profile**

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

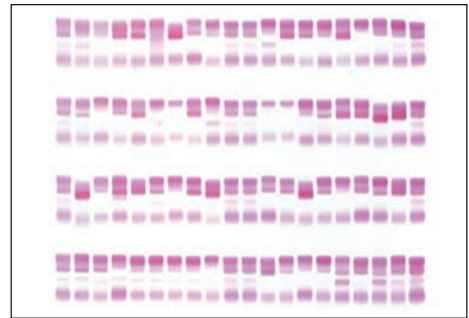
3438	100 sample kit	3441	40 sample kit
3439	80 sample kit	3442	20 sample kit
3440	60 sample kit	3443	10 sample kit

▶ **Hi-Res Proteins**



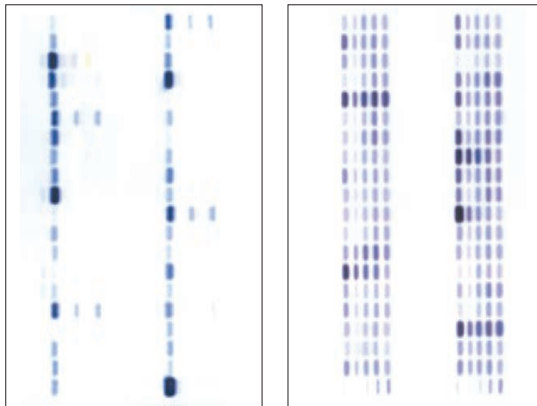
3430 20 sample kit

▶ **Lipoprotein Separation**



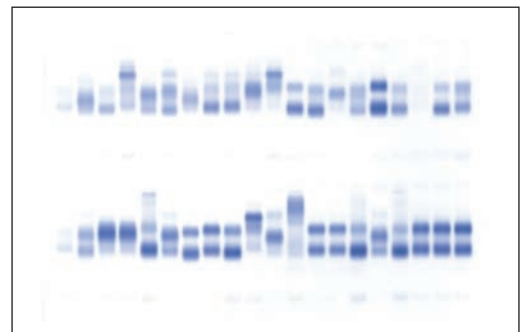
3340	80 sample kit	3343	20 sample kit
3341	60 sample kit	3344	10 sample kit
3342	40 sample kit		

▶ **CK and LD Isoenzymes**



3332	40 sample kit	3335	60 sample kit
3333	20 sample kit	3336	40 sample kit
3334	10/20 sample kit	3337	20 sample kit
		3338	10/20 sample kit

▶ **Alkaline Phosphatase**



3346 40 sample kit
3345 20 sample kit

The new QuickScan Touch Plus includes a more powerful Windows 10 CPU and a new SQL database format 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.



QS TOUCH PLUS FOR IMAGING AND QUANTITATION

HIGHLIGHTED FEATURES

- 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
- 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
- Full audit trail accountability



Unify gel and CE results

Myeloma Tracking Module

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

JUMP TO DIGITAL



SCAN TO EXPLORE THE QUICKSCAN TOUCH PLUS



Myeloma Module Tracking Option

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

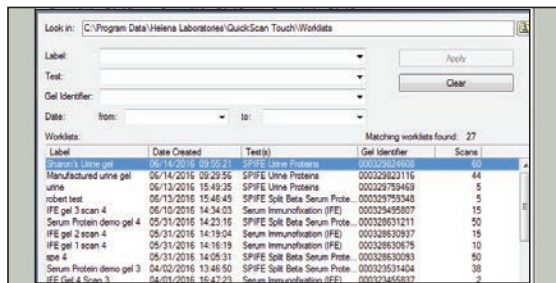
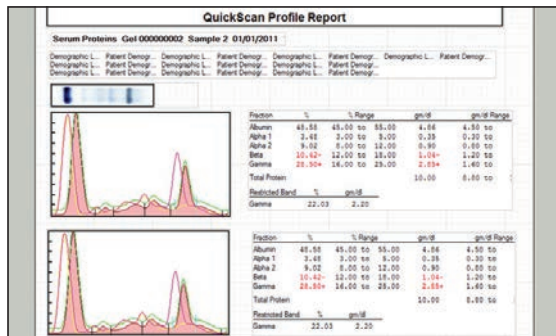


See everything in one place - Each patient's current results are auto-paired with their previous data from a virtually unlimited data store, including competitive system data. Available total protein, albumin, free light chain ratio and nephelometric data can also be incorporated for review. If it's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

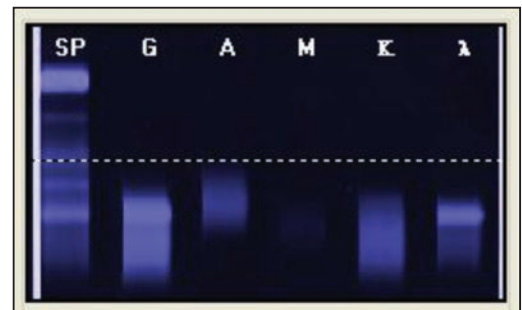
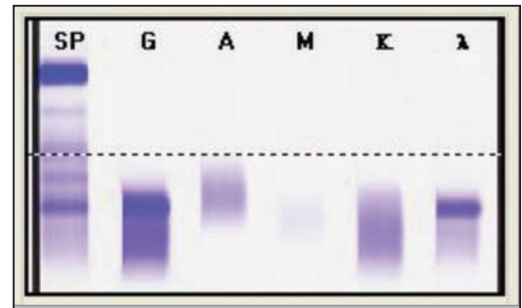
Initial, review and release - Queues with ID audit trail are provided to collate initial results by the operator, reports awaiting review, and final results ready to report to the clinician.

Reports and Worklists



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

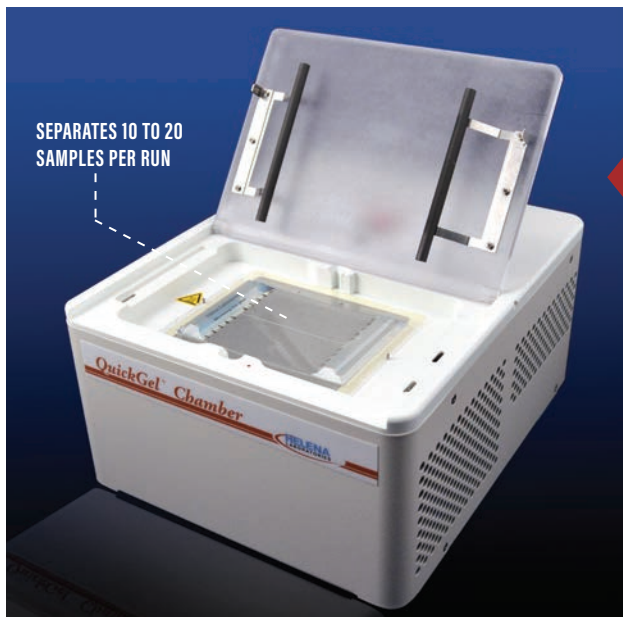
Reverse Image



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.



IDEAL FOR SMALL RUNS AND LOW VOLUME TESTING

- 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

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SCAN TO EXPLORE THE QUICKGEL CHAMBER AND ASSAYS



SPE Classic



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

SPE Split Beta



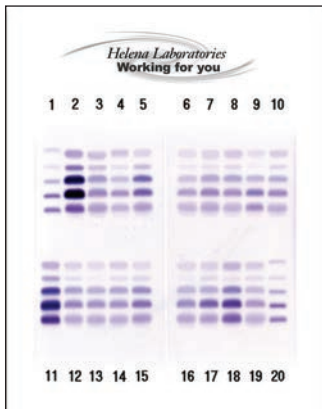
3550 10/20 sample kit
3550T 10/20 sample kit

Immunofix



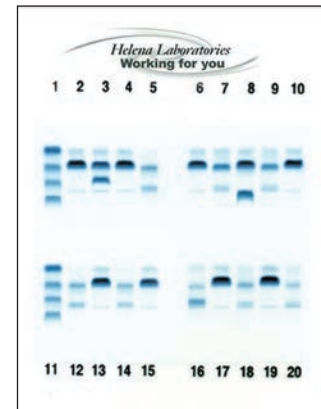
3551 1 or 2 profile kit
3551T 1 or 2 profile kit

LD Isoenzyme



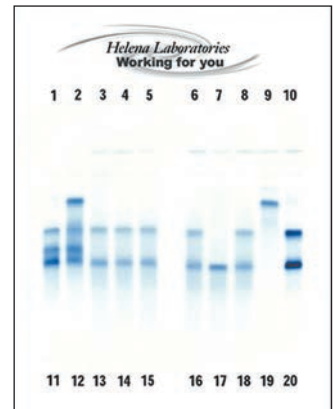
3538T 10/20 sample kit

Acid HB



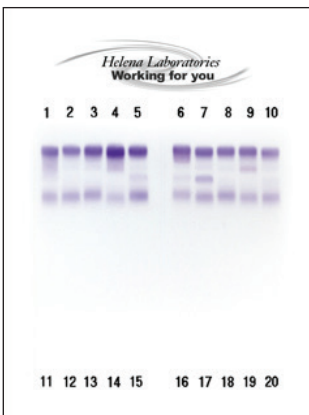
3519 10/20 sample kit

Alkaline HB



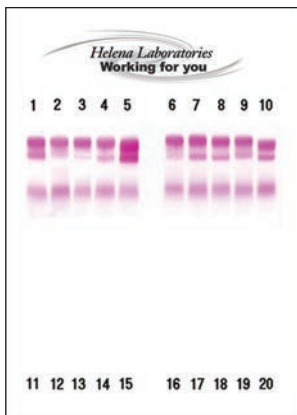
3529 10 sample kit
3529T 10 sample kit

Cholesterol



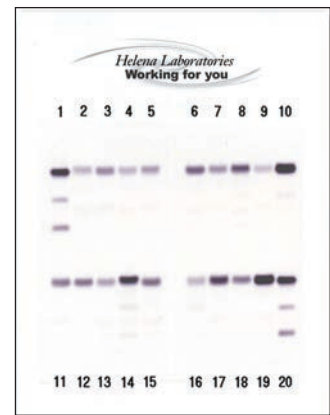
3543T 10/20 sample kit

Lipoprotein

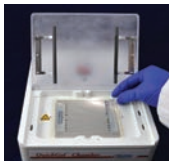


3544T 10 sample kit

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.



HEMOSTASIS

PLATELETWORKS | ACTALYKE XL | MAX-ACT

HELENA HEMOSTASIS



PLATELETWORKS

PLATELET FUNCTION SCREENING

PAGES 27-28



ACTALYKE ULTRA

ACTIVATED CLOTTING TIME REAGENTS

PAGES 29-30



MAX-ACT

REAGENT TUBES

PAGE 29

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 effectively screen for anything effecting platelet function whether mechanical or induced.



SCREEN FOR ANYTHING EFFECTING PLATELET FUNCTION

HIGHLIGHTED FEATURES

- 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



JUMP TO DIGITAL



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

PLATELEetworks

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 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.



ADVANCED DATA HANDLING AND WIFI CONNECTIVITY

HIGHLIGHTED FEATURES

- 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

ACTALYKE

- | | |
|---------|---------------------------------------|
| 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) |



ACTIVATED
CLOTTING TIME
(ACT) ANALYZER



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.

HIGHLIGHTED FEATURES

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

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TO DIGITAL



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.



ADVANCED MODULAR SYSTEM FOR PLATELET AGGREGATION

HIGHLIGHTED FEATURES

- 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



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

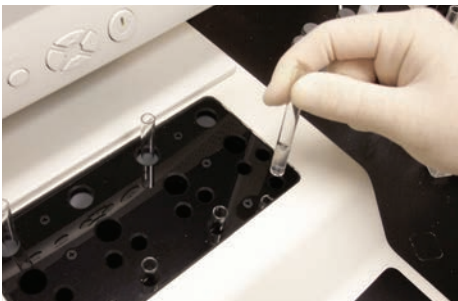
JUMP TO DIGITAL



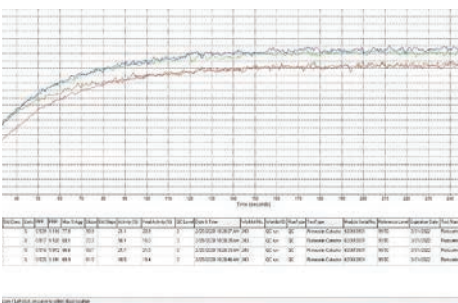
SCAN TO EXPLORE THE AGGRAM ANALYZER



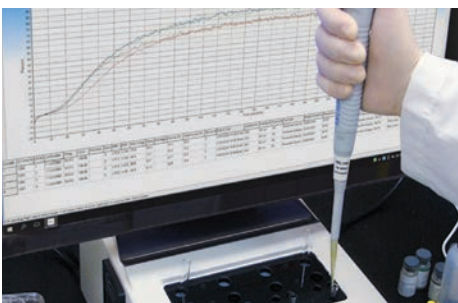
Data Handling Features



Customized Reports



Quality Control



1484 AggRAM Analyzer
1486 AggRAM Module



QUALITY REAGENTS

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

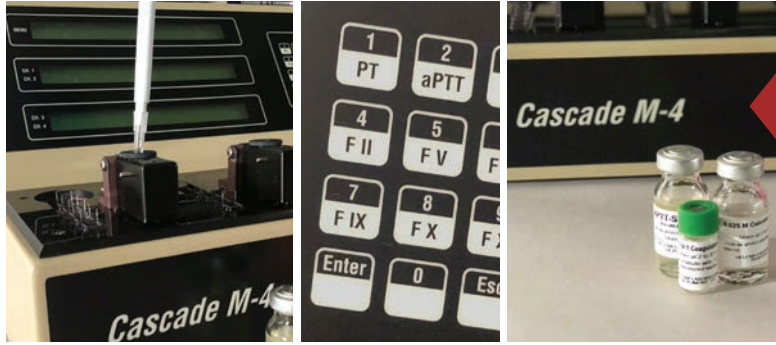
Ristocetin Cofactor Reagents

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, formalinized 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



ON BOARD QUALITY CONTROL. CALCULATES PATIENT RESULTS

HIGHLIGHTED FEATURES

State-of-the-art photo optics

On-screen prompts

Easy-to-use keypad

Only a 15"x15" footprint

▶ 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



▶ 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

▶ 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

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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

**JUMP
TO DIGITAL**



SCAN TO
EXPLORE
HELENA'S
HEMOSTASIS
PRODUCTS








FOBT/PLASTICS

OCCULT BLOOD TESTING

DISPOSABLE PLASTICS

FOBT/PLASTICS

	COLOSCREEN IFOBT		IMMUNOCHEMICAL FOBT ASSAY		PAGE 37
	COLOCARE FOBT		OCCULT BLOOD TESTS		PAGE 38
	LABCON PLASTICS		DISPOSABLE PLASTICS		PAGES 39-40

SENSITIVITY
SPECIFICITY
VALUE

Helena ColoScreen occult blood products have been a trusted brand in physician offices and clinical laboratories since 1981. Next generation ColoScreen iFOBT for immunochemical detection of human hemoglobin continues that tradition, offering the latest technology for screening of gastrointestinal disease including colorectal cancer. ColoScreen iFOBT is a one-step lateral flow chromatographic immunoassay. ColoScreen iFOBT exceeds the sensitivity standards recommended by the American Cancer Society for annual screening of everyone aged 45+. Early detection is the answer and ColoScreen iFOBT is the key!



TESTING IS SIMPLE

1

Patient sample is collected and transported in a unique collection tube containing stabilizing buffer and a built-in sampling wand.

2

In the laboratory, sample is dispensed from the collection tube directly into the test cassette.

3

Quality control and patient results are read in the window.

FEATURES

- Immunochemical assay
- Highly specific
- Sensitivity of 50µg/g feces
- Easy, odor-free collection tube

BENEFITS

- Lateral flow chromatographic immunoassay with built-in-QC
- Specific for human hemoglobin – no interference from peroxidase or blood from dietary sources
- Greater sensitivity to hemoglobin than standard guaiac assays
- Sample maintains integrity during short-term storage

- 5061 ColoScreen iFOBT Collection Tubes - 30/pkg
- 5062 ColoScreen iFOBT Test Cassettes - 30/pkg
- 5063 ColoScreen iFOBT Mailers - 30/pkg
- 5064 ColoScreen iFOBT Office Pack - 30 each (Collection Tubes, Cassettes and Mailers)

OCCULT BLOOD TESTS

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 Singles Lab Pack
- 5085 80 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

JUMP TO DIGITAL



SCAN TO EXPLORE HELENA'S OCCULT 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 THE TUBE

JUMP TO DIGITAL



SCAN TO EXPLORE HELENA'S PLASTICS PRODUCTS



DISPOSABLE PLASTICS

H-Pette® and H-Pette®-II



- 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-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.



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

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

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

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 - PACKAGES

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