

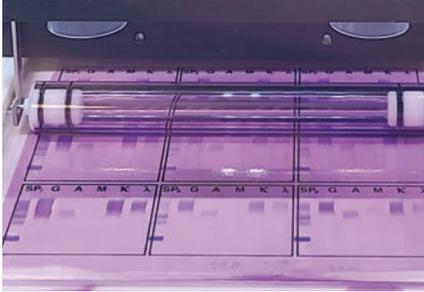
■ ■ ■ ■ ■ 2025



PRODUCT HIGHLIGHTS



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C-Pette, U-Pette, H-Pette and urine collection cups



2025 ■ ■ ■ ■ HELENA PRODUCT HIGHLIGHTS

MESSAGE FROM TIPTON GOLIAS | CHAIRMAN AND FOUNDER

Are you ready? I am hearing and asking that question a lot lately! New technologies, new therapeutics and new challenges are just around the corner and Helena plans to be ready! Thank you for browsing through our 2025 catalog today to see new products as well as what we have in the works.



The results of the AQUILA Trial were presented at the ASH meeting last December, and they showed a survival benefit to treating high-risk patients with smoldering myeloma with daratumumab vs just monitoring. I'm pleased to say **SPIFE Nexus** is up to the task of providing automated, highly-sensitive urine and serum protein and IFE results for detecting disease and monitoring therapy. In 2025, we are working to push the automated throughput even higher – up to 40% higher for some assays. New assays for **AIAT** and **IgG IEF** will also be joining the test menu.

We could see the first treatment for elevated **lipoprotein(a)** on the market by the end of the year. That will be huge! Lp(a) is a known, genetic, causal factor for cardiovascular disease and measuring the cholesterol content of Lp(a) is a superior assay for detecting that risk. Our direct **Cholesterol Profile assay** for **HDL-c, LDL-c, VLDL-c** and **Lp(a)-c** will be available on the SPIFE Nexus soon. We will be ready!

Finally, the **V8 UltraCE analyzer** will be introduced in 2025. We are excited. This instrument has a completely redesigned capillary array that greatly enhances the speed, signal strength and ease of interpretation beyond anything out there today. In one evaluation of 172 samples, correlation of UltraCE ID to IFE was 95%!

We are here to help! Your local Helena representative would be happy to discuss your testing needs and provide further information. Feel free to reach out if we can be of assistance.

Best personal regards,

Tipton Golias
Chairman and Founder



VISIT WEBSITE

800-231-5663 | www.helena.com

PRODUCT HIGHLIGHTS

SPIFE NEXUS AUTO GEL ELP

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

P5

Lp(a) IS NEAR

Lp(a) drugs are almost here. Are you ready? SPIFE Lp(a)-c is the superior assay.

P8

NEW! V8 UltraCE

New CE with next-gen optics system provides superior results and stunning reproducibility.

P12

ALPHA-1 ANTITRYPSIN

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

P19



SPIFE NEXUS

AUTO GEL ELECTROPHORESIS



HELENA SPIFE NEXUS

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 totally automates ELP, providing all the sensitivity and no added time or labor.



■ ■ ■ ■ ■ SPIFE NEXUS

FULLY AUTOMATED GEL ELECTROPHORESIS



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

The **SPIFE Nexus** is transformative technology for gel electrophoresis. 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.



Five Minute Setup

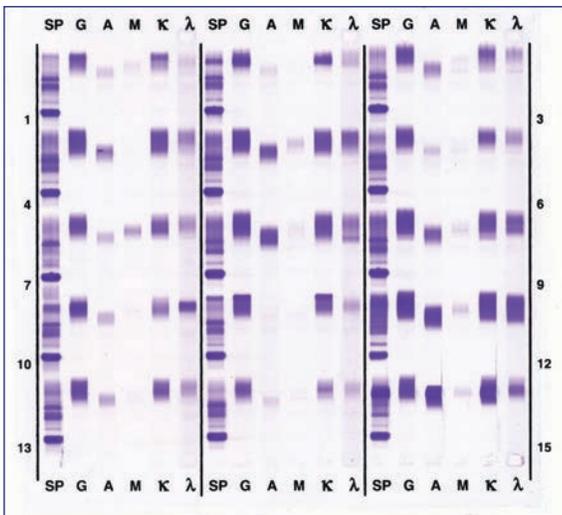


Beginning to End Automation



Powerful Reporting Features

ALL THE SENSITIVITY OF IMMUNOFIXATION WITHOUT ALL THE LABOR



With SPIFE Nexus, laboratories need not compromise high sensitivity to bridge the gap of high labor costs and fewer skilled workers. SPIFE Nexus totally transforms immunofixation into a fully automated assay while preserving the full 1-5 mg/dL sensitivity of gel IFE vs 25 mg/dL for CE.

- Auto sampling from primary tubes with customizable dilution schemes
- Antisera auto-applied for up to 15 profiles without templates or cross contamination
- Unique dual blotter and wash system removes unbound antisera for easier to interpret patterns and no ghosting

Coming Soon!

Up to 40% faster TAT for greater throughput

SPIFE 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

5

FEATURES



SPIFE NEXUS

FULLY AUTOMATED GEL ELECTROPHORESIS



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 2-D barcodes with system check to prevent operator errors in setup
- Intuitive and flexible software interface

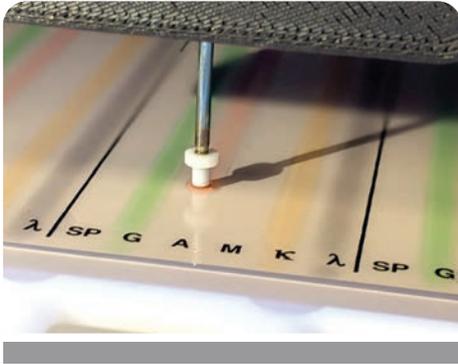


Full Automation for Walkaway Processing and Analysis

- 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

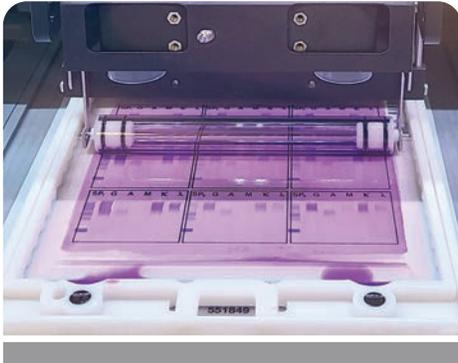
SPIFE NEXUS

FULLY AUTOMATED GEL ELECTROPHORESIS



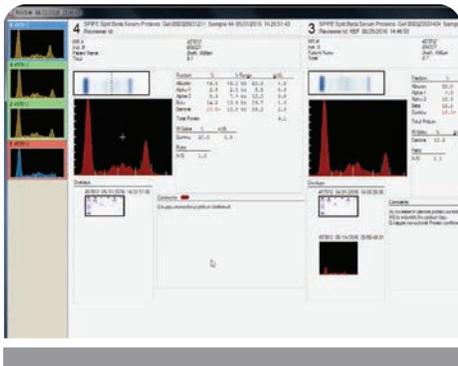
Revolutionary Antisera Application System

- Ready-to-use, color-coded antisera in temperature controlled on-board storage
- Antisera for up to 15 profiles applied directly to gel
- Optional IgD, IgE, Free Kappa and Free Lambda antisera also available



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
- Integrated reporting of full report profile for rapid reporting with remote review
- Links to V8 UltraCE data

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

Input Power:

100 - 120 VAC at 16 Amps Max
240 VAC 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:

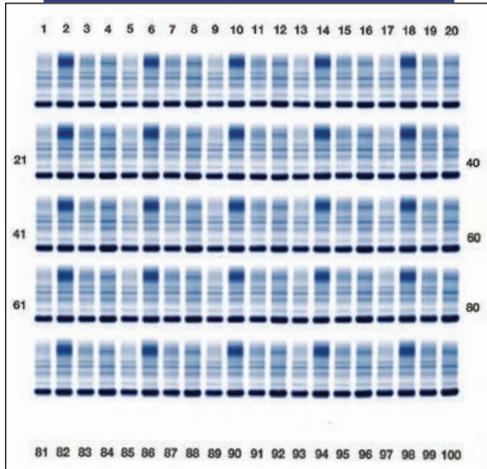
30° to 65° C

Test Tubes:

12-16 mm diameter, 75-100 mm height

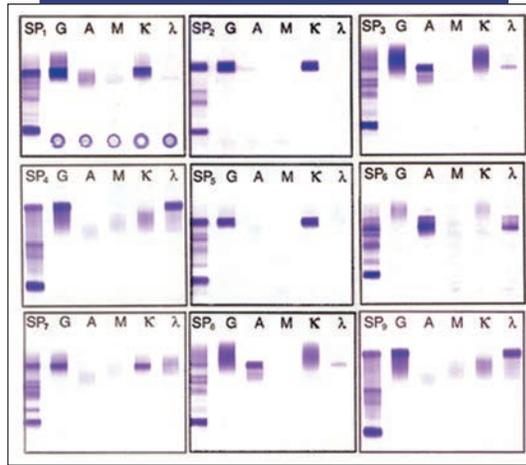
*Windows is a registered trademark
of Microsoft Inc.

SPIFE Nexus Split-Beta Proteins



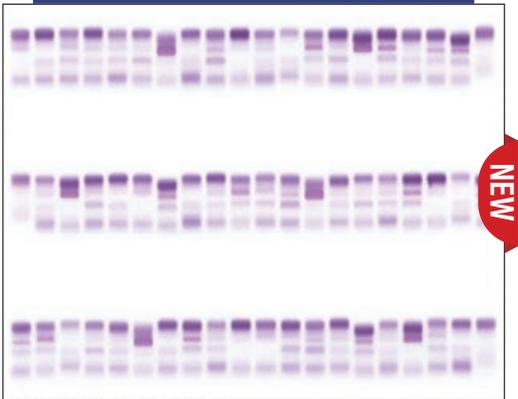
2398 100 sample kit 2420 60 sample kit
 2399 80 sample kit 2421 40 sample kit
 2422 20 sample kit

SPIFE Nexus ImmunoFix



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

SPIFE Nexus Cholesterol



2438 100 sample kit 2441 40 sample kit
 2439 80 sample kit 2442 20 sample kit
 2440 60 sample kit

Ready for Lp(a)?

New therapeutics for treating lipoprotein(a) are on the horizon.

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.

SPIFE Nexus Alkaline Hb



2415 20 sample kit

SPIFE Nexus Acid Hb



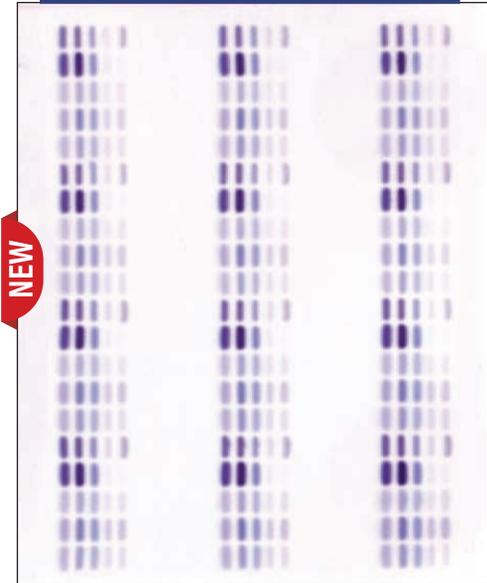
2418 20 sample kit



Hb wall chart provides a 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 LD Isoenzymes



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

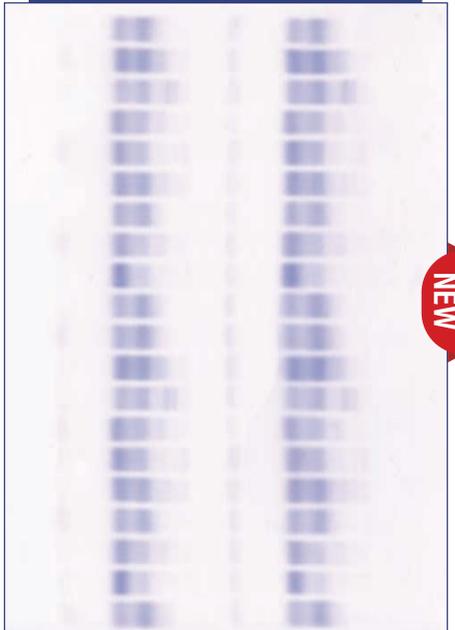


FULLY AUTOMATED TESTING

SPIFE Nexus provides fully automated isoenzyme testing with integrated reagent application, development and scanning of quantitative assays.



SPIFE Nexus ALP Isoenzymes



2346 40 sample kit 2345 20 sample kit

SPIFE Nexus CK Isoenzymes

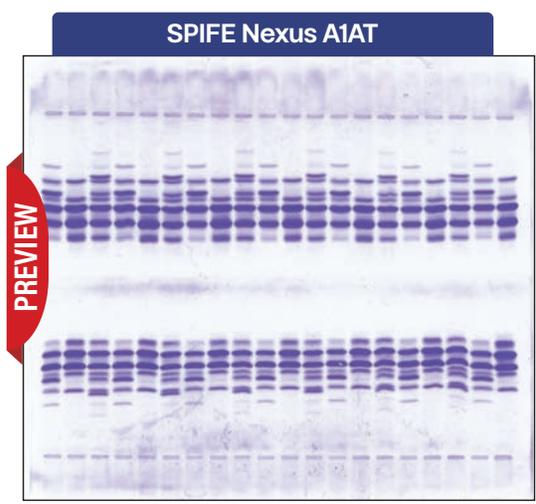


2332 40 sample kit 2333 20 sample kit



**In Development Preview
SPIFE Nexus LDL-P Particle Count**

When it comes to atherogenicity, small dense particles impart higher cardiovascular risk than bigger, buoyant particles. This method uses IFE with an anti-apolipoprotein B antisera to assess particle size at a fraction of the cost of NMR. LDL-P has shown to be precise, linear and compared well to mass-based Lp(a) and is unaffected by variations in apo(a) size.



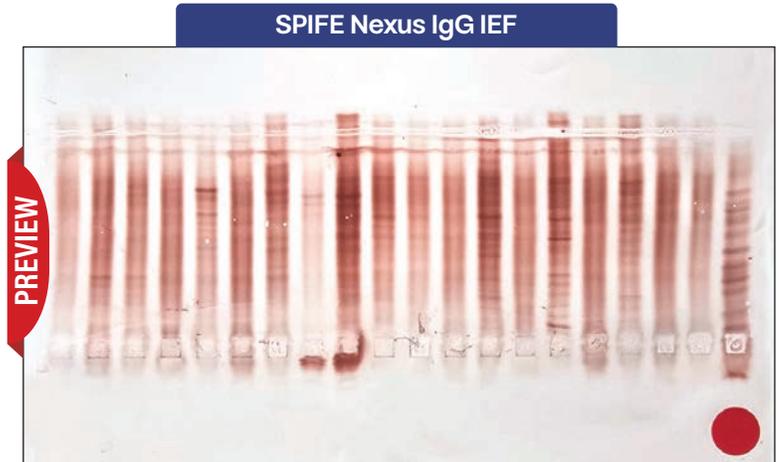
**In Development Preview
SPIFE Nexus A1AT**

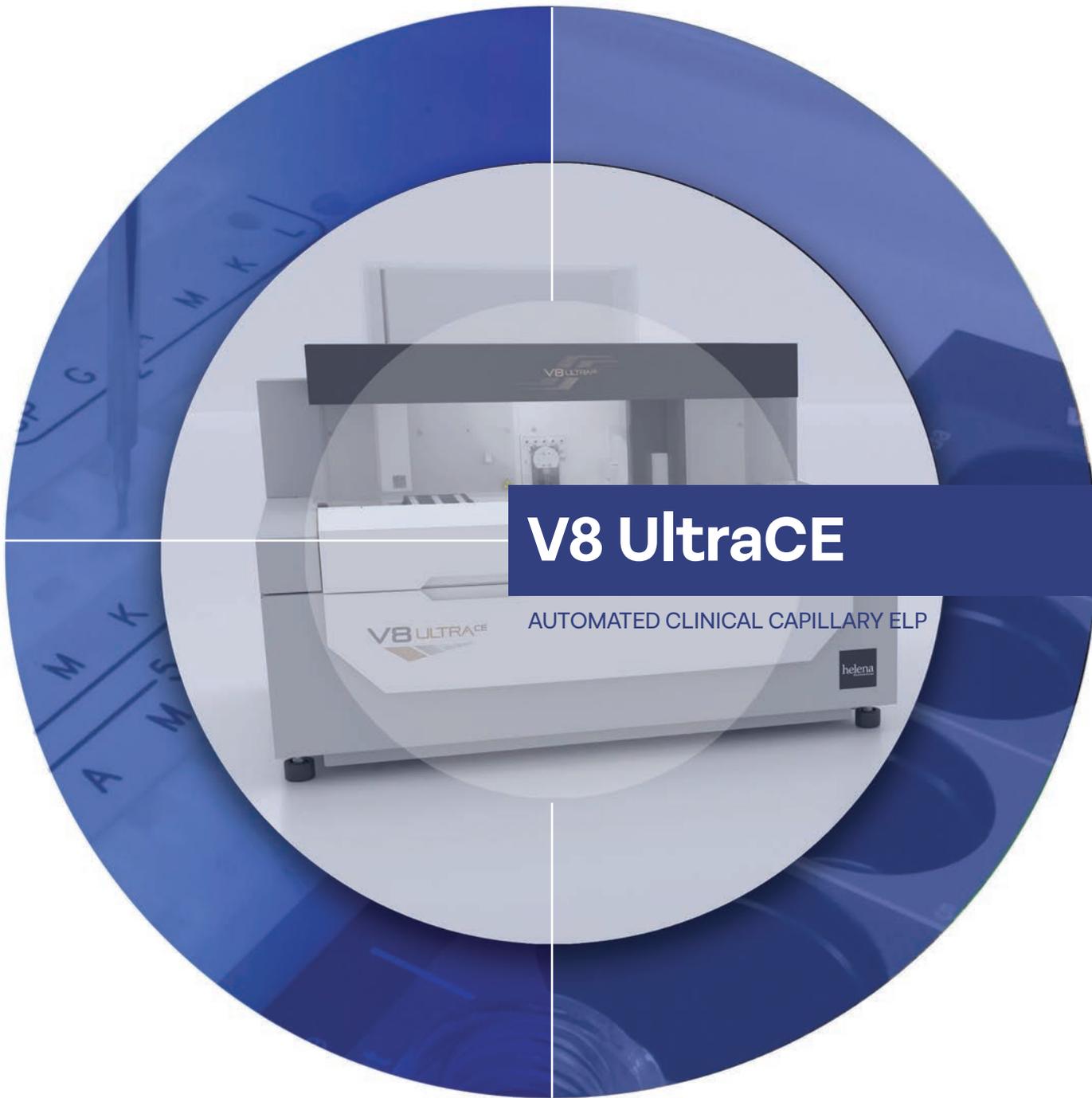
The SPIFE Nexus precise temperature control provides an excellent platform for separating A1AT phenotypes by IEF. Up to 40 samples can be separated per gel.



**In Development Preview
IgG IEF**

The gold-standard method for detecting intrathecal IgG synthesis is coming soon. The Nexus will perform the electrophoresis portion of this highly sensitive immunoblot assay.





V8 UltraCE

AUTOMATED CLINICAL CAPILLARY ELP

NEW! V8 UltraCE

PREVIEW!

FOR INVESTIGATIONAL USE ONLY

The performance characteristics of this product have not been established. March 2025



V8 ULTRA^{CE}

V8 UltraCE is the next-generation analyzer from Helena — faster, more connected and flexible than ever. With accelerated capillary technology, seamless connectivity to laboratory track systems and Helena's unique integrated gel workflow, no other system comes close to this level of power.

PREVIEW

V8 UltraCE FAST FACTS

80

Proteins/Hour

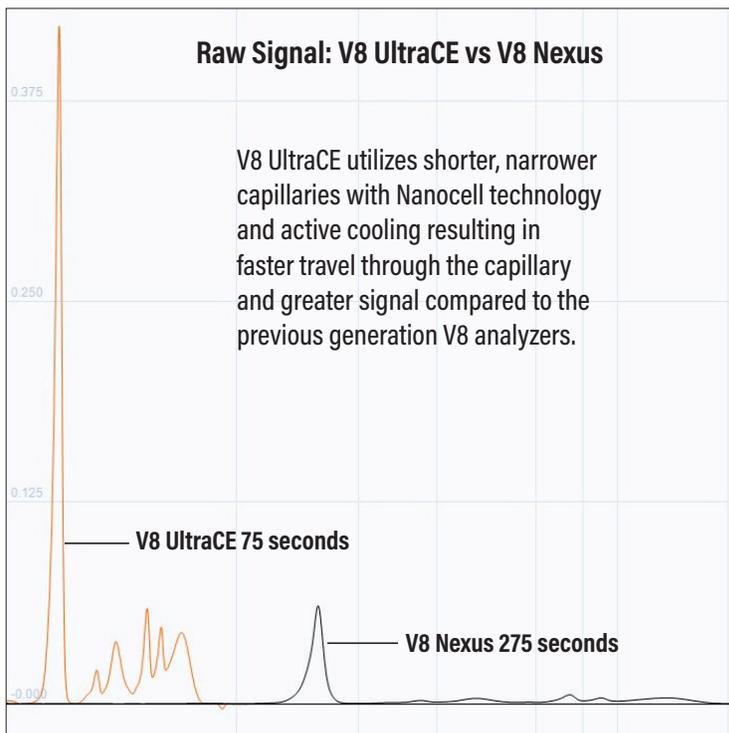
16

ID/Hour

50

Hb/Hour

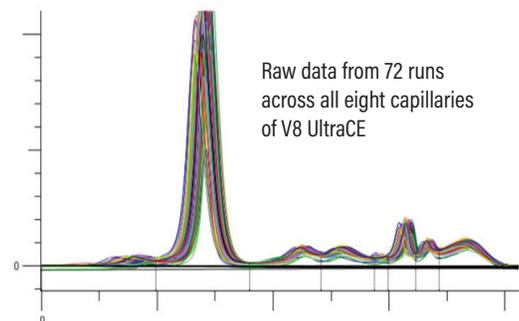
Provides efficient, walkaway automation.



V8 UltraCE has 7x the signal strength and near 4x faster separation than V8 Nexus.

Exceptional Reproducibility

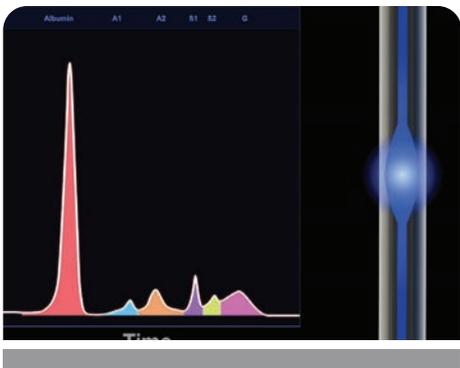
- Next-gen buffer chemistries
- New capillary array provides greater resolution, reduced noise, and improved separation
- Outstanding capillary-to-capillary data characteristics





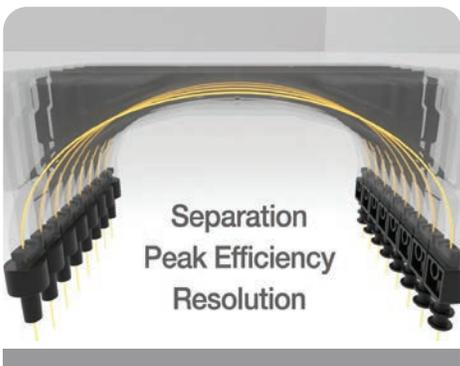
New Sample Processing Features

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



Nanocell Technology

- Nanocell enhances signal detection
- Shorter, narrower capillaries provide faster throughput
- Greater precision overall



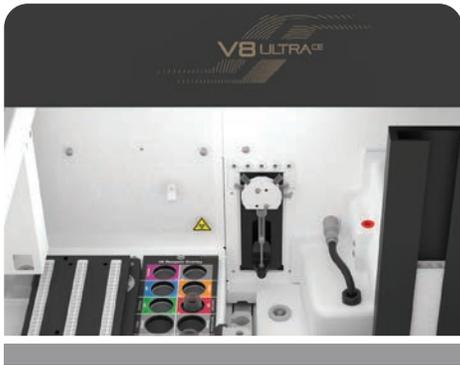
Precision Capillary System

- Horseshoe array provides active cooling to prevent degradation
- LED and deuterium light source for sensitive detection



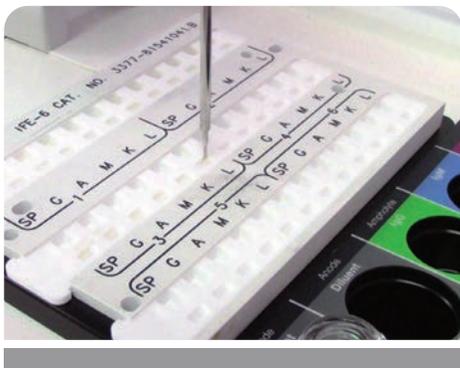
Multiple Method Capability

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



Auto Maintenance

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



Reflex to Gel

- Gel tray preparation and rapid wash for protein and ID/IFE
- Integrated reporting with SPIFE gel results using QuickScan to profile patient's historic results



1845
Nexus MAX Sample Bay



Automated High Volume Sample Handling

- Nexus MAX extends 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



TOUCH SERIES

INTEGRATED SOLUTION | BROAD MENU



HELENA 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. The Touch system is faster and smaller, plus provides integration with the V8 capillary systems for ease in comparing and reviewing current and past results.



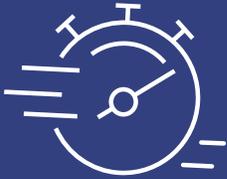
TOUCH SERIES

INTEGRATED SOLUTION – HIGH VOLUME

Helena's integrated solution for high volume electrophoresis workloads.



ESH TOUCH
Auto Dilutions



SPIFE TOUCH
Faster Processing



Scan to explore the Touch Series.



QS TOUCH PLUS
Advanced Reporting



WEBINARS
Interactive Training



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.

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.

FEATURES

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

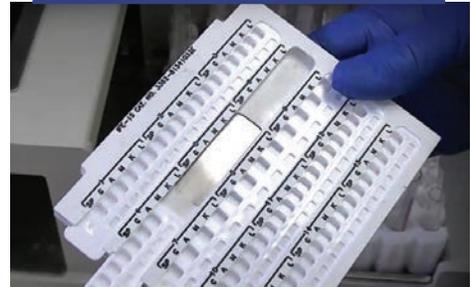


Scan to explore the ESH Touch.

Place Racks into the Instrument



Install a Sample Tray



Select the Test - Push Start



WORKHORSE SOLUTION FOR CLINICAL GEL ELP

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.



Scan to explore the SPIFE Touch.

SPIFE A1AT

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



Misdiagnosis is common; the average A1AT patient has seen 3 doctors over 7 years since first lung symptoms

Who Should Get Tested

- Family history of A1AT deficiency
- Multiple family members with shortness of breath, cough
- Early onset emphysema
- 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 A1AT deficiency

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

*NIH National Heart, Lung and Blood Institute



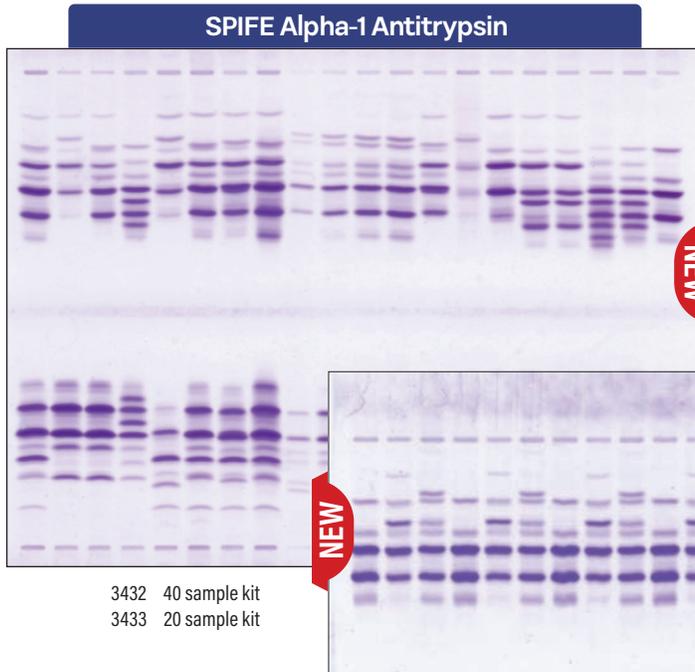
FEATURES

- 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

A1AT AND IGG IEF

EFFICIENT DISEASE TESTING



- 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



Scan to explore the A1AT Assay.

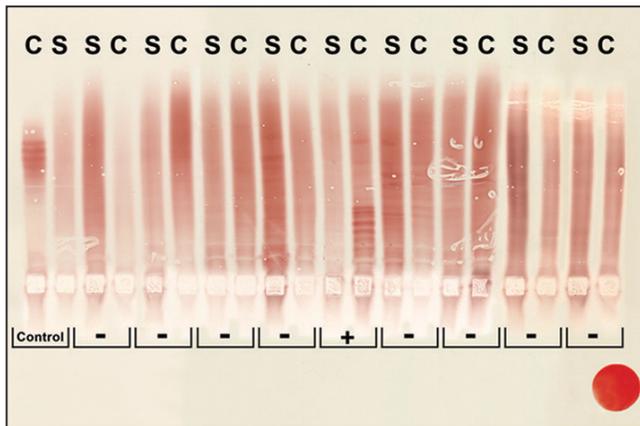
A1AT FAST FACTS

Separate up to 40 samples per SPIFE gel

Identify all clinically relevant phenotypes

Easy, quick and inexpensive

Excellent sensitivity



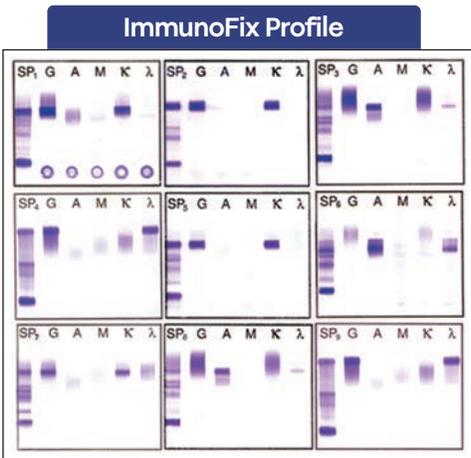
Oligoclonal Banding

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.

3385 10 profiles
3389 5 profiles



Scan to explore the IgG IEF Assay.

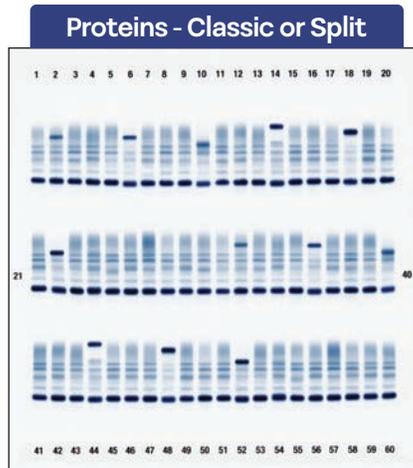


3408	15	profile kit	3406	3	profile kit
3409	9	profile kit	3351	1/2	profile kit
3401	6	profile kit			

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



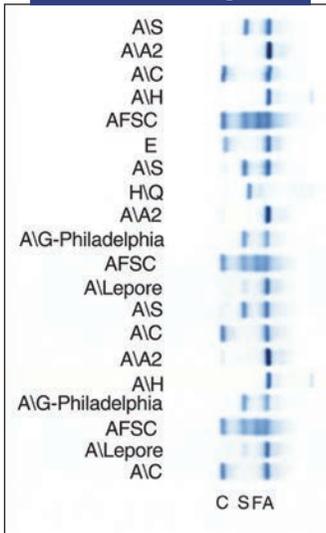
Scan to explore SPIFE Touch ImmunoFix Assay and more.



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

- 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

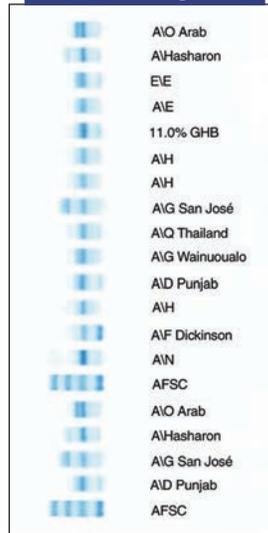
Alkaline Hemoglobin



3415	20	sample kit
3429	10	sample kit

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.

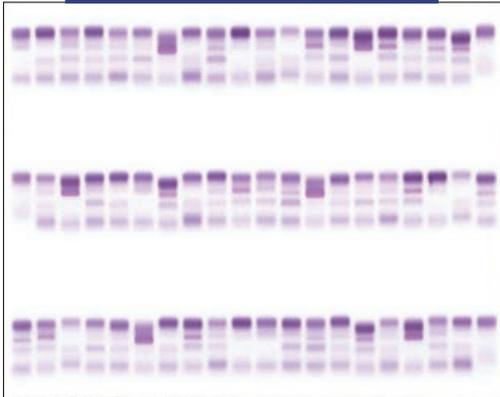
Acid Hemoglobin



3418	20	sample kit
3419	10/20	sample kit

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.

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

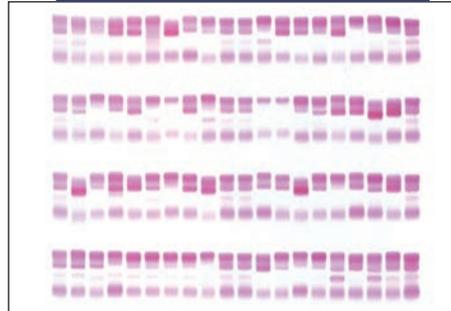
3438	100 sample kit	3441	40 sample kit
3439	80 sample kit	3442	20 sample kit
3440	60 sample kit	3443	10 sample kit

Hi-Res Proteins



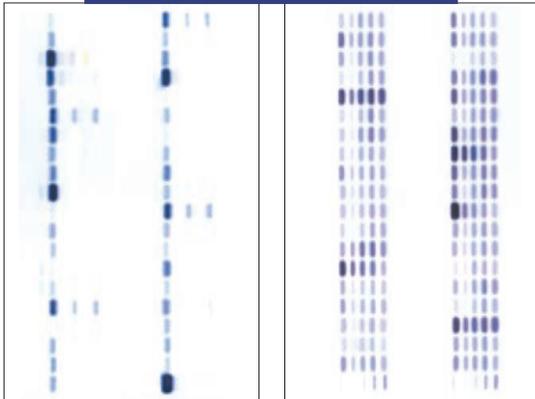
3430 20 sample kit

Lipoprotein Separation



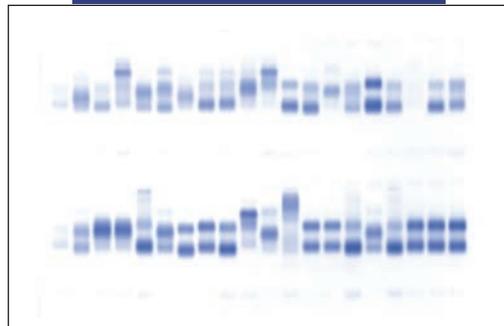
3340	80 sample kit	3343	20 sample kit
3341	60 sample kit	3344	10 sample kit
3342	40 sample kit		

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

QUICKSCAN TOUCH® PLUS

DENSITOMETRY & DATA MANAGEMENT WITH REMOTE REVIEW



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

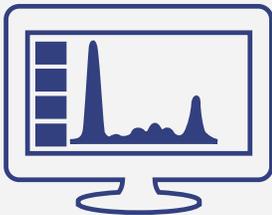


Scan to explore the QuickScan Touch Plus.

FEATURES

- Auto M-spike delimiting provides user-to-user consistency
- Barcoded gels allow positive ID from patient tube to final results with LIS interface
- Patterns can be reviewed and edited remotely
- 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

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

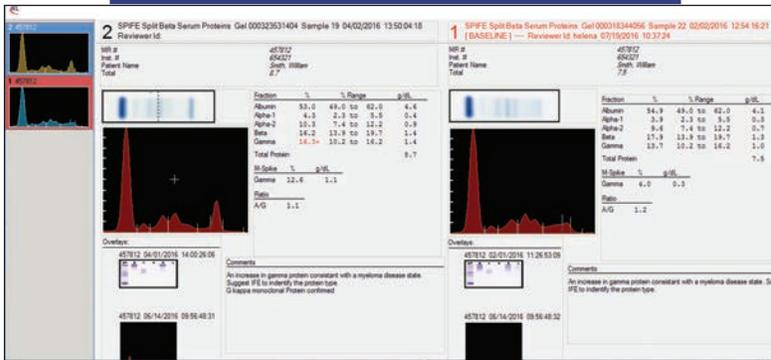


See Myeloma Module demo in action at helena.com

QUICKSCAN TOUCH® PLUS

DENSITOMETRY & DATA MANAGEMENT

Myeloma Module Tracking Option



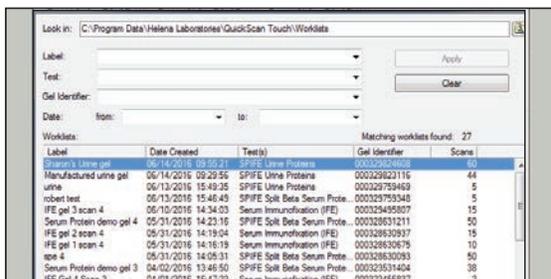
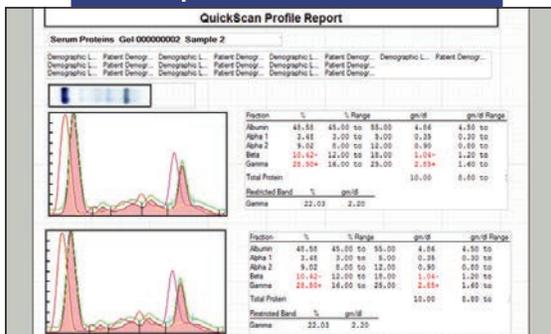
The Myeloma Module is an optional tracking feature that allows quick review and reporting of results from both the SPIFE gel and the V8 CE systems.

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.

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.

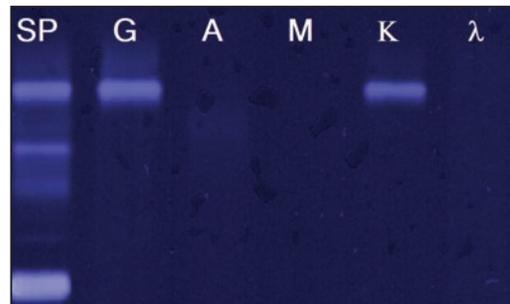
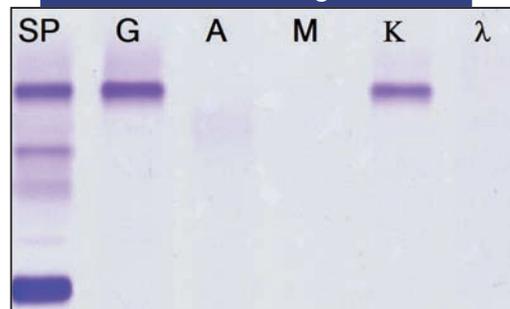
Scroll through to spot changes - Reports are presented as scrollable thumbnails to quickly detect progression or regression of disease.

Reports and Worklists



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

Reverse Image

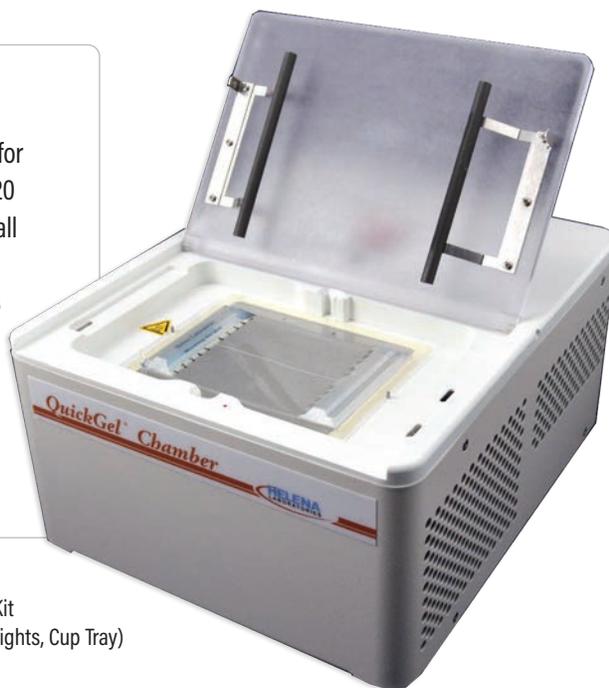


Invert the background of IFE images on screen to create a "negative" view to enhance visualization and aid in interpretation. View simultaneously with positive image system.

IDEAL FOR SMALL RUNS

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.



Scan to explore the QuickGel Chamber and Assays.

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

QuickGel Assays

- Cholesterol Profile
- CK Isoenzymes
- LD Isoenzymes
- Alkaline Hemoglobins
- Acid Hemoglobins
- Immunofixation
- Proteins, Split-Beta
- Proteins, Classic
- Lipoprotein



Titan Plus Power Supply

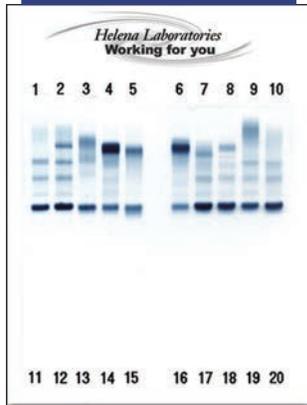
Recommended for use with the QuickGel Chamber is the completely solid state **TITAN Plus Power Supply**. A synchronous timer assures precise control with automatic end-of-run signal and shut-off.

RECOMMENDED

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

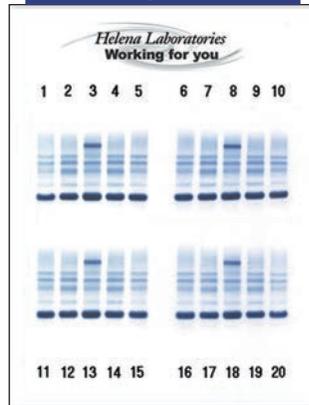


SPE Classic



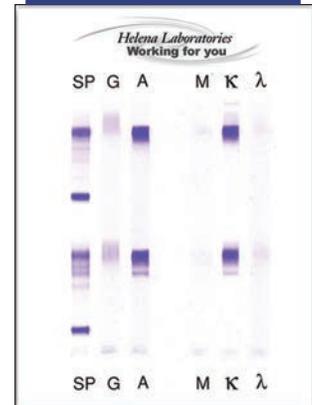
3505 10/20 sample kit
3505T 10/20 sample kit

SPE Split Beta



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

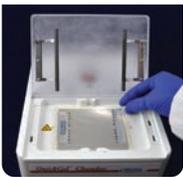
ImmunoFix



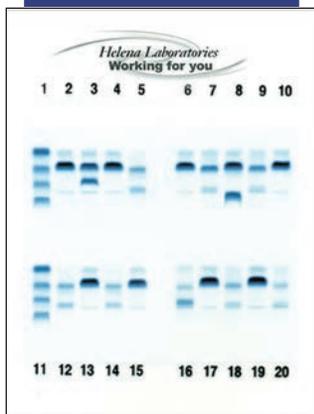
3551 1 or 2 profile kit
3551T 1 or 2 profile kit

SPECIFICATIONS

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.

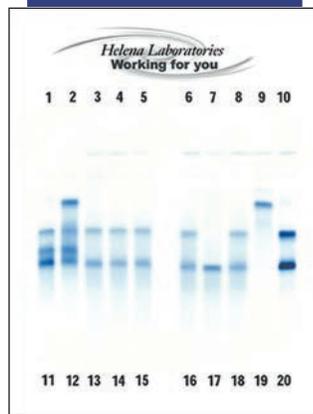


Acid HB



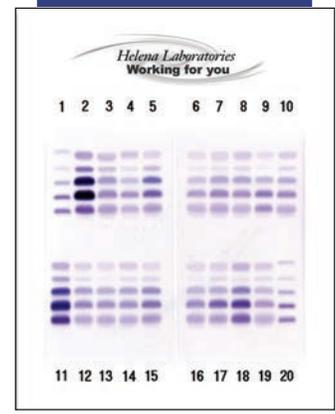
3519 10/20 sample kit

Alkaline HB



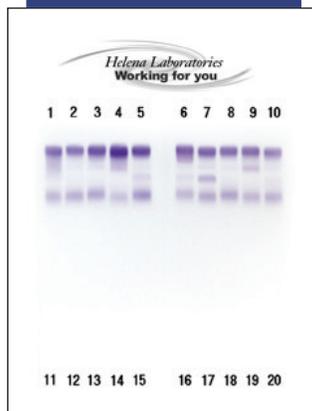
3529 10 sample kit
3529T 10 sample kit

LD Isoenzyme



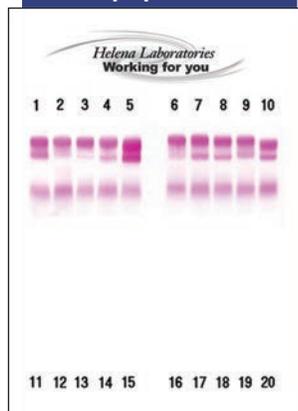
3538T 10/20 sample kit

Cholesterol



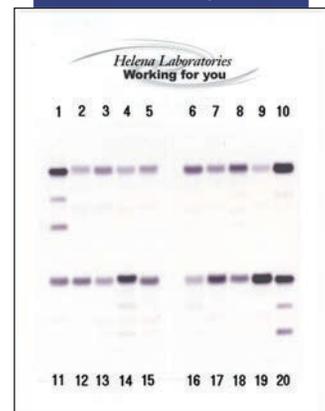
3543T 10/20 sample kit

Lipoprotein



3544T 10 sample kit

CK Isoenzyme



3534T 10/20 sample kit



HEMOSTASIS

PLATELETWORKS | ACTALYKE | AGGRAM



HELENA HEMOSTASIS

Helena is dedicated to providing the medical community with reliable technology to improve patient care at the point of care and in the laboratory. Our specialties include heparin monitoring and platelet function screening.





Scan to explore Helena Plateletworks.

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.

FAVORABLE REIMBURSEMENT

FEATURES

- Reduces unnecessary platelet usage
- Detects effects of anti-platelet therapies
- Fast results with functional platelet count plus aggregation/inhibition % activity
- Favorable reimbursement
- Excellent pre-surgical and trauma screen
- Uses traditional ADP, Collagen and Arachidonic Acid agonists

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



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

ACTALYKE® MINI II & XL

ACTIVATED CLOTTING TIME



Scan to explore Actalyke instruments and reagents

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.

- 5753 Actalyke Mini II Analyzer with printer, 110/220V
- XL-ECT Actalyke Electronic Clotting Tube
- 5754 Actalyke Mini II Battery Pack
- 5755 Actalyke Mini II (no printer)

ACTALYKE MINI II

FEATURES

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

- 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)



All premiere Actalyke systems use a two-point clot detection mechanism - one at 0° and another at 90°. This two-point system enables **Actalyke XL** to detect a clot at early fibrin formation and is less affected by clot stability. As the clot forms, the magnet travels away from detector 1 toward detector 2. Once it reaches the 46° threshold, the detectors in tandem signify an endpoint. The end result is greater test result reliability, especially on highly heparinized and diluted samples.

- 5770 Actalyke XL Analyzer, 110/220V
- 5758 Actalyke XL Barcode Reader and Cable
- 5759 Actalyke XL Battery Pack

FEATURES

- Dual Test wells
- Dual clot detection
- Biological & electronic QC functions
- QC functions with lockout options
- Three user security levels
- Demographic storage
- Data storage on disk
- Touch screen interface
- Optional bar code reader for patient ID entry

ACTALYKE XL

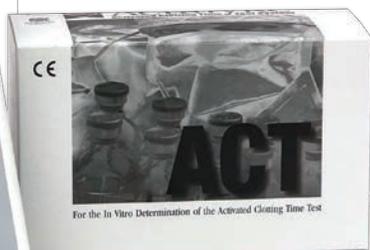


The Gold Standard of Heparin Management

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 XL Ultra** is a premier analyzer offering excellent reproducibility and strong data handling features. Advanced features of the Actalyke XL 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.



- 5772 Actalyke XL Ultra, 110/220V
- 5753 Actalyke XL Ultra Docking Station



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

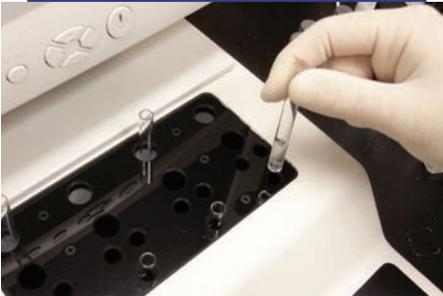


Scan to explore the AggRAM Analyzer

The **AggRAM** platelet aggregation system couples four-channel laser-optic modules with a sophisticated but simple interface and powerful HemoRAM software and data handling features. Up to three modules can be run per HemoRAM Analyzer computer, providing up to twelve channels to handle tough workload demands or multiple agonists and/or agonist concentrations. 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.

1484 AggRAM Analyzer
1486 AggRAM Module

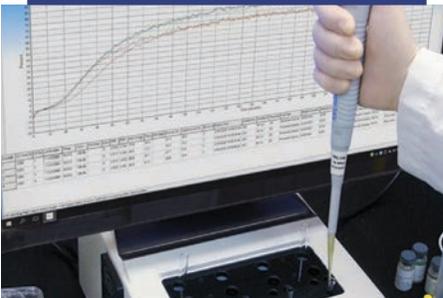
Data Handling Features



Customized Reports



Quality Control



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




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



ON-SCREEN PROMPTS

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



Scan to explore the Cascade M4



FEATURES

- State-of-the-art photo optics
- On-screen prompts
- Easy-to-use keypad
- Only a 15" x 15" 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

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.

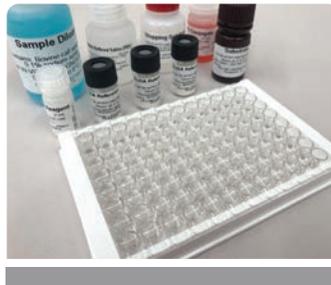
Specialty Assayed Controls are available in 2 levels: S.A.C.-1 normal and S.A.C.-2 abnormal.

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



Scan to explore Helena's Hemostasis Products



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



FOBT/PLASTICS

OCCULT BLOOD TESTING | PLASTICS

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



Scan to explore Helena's Occult Blood Products

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

American Cancer Society Guidelines for Colorectal Cancer



“Screening beginning at age 45 for adults of average risk will save more lives.”

CA: A Cancer Journal for Physicians. May 30, 2018.

Recommended Screening Tests

Visual exams:

- Colonoscopy every 10 years
- CT colonography every 5 years
- Flexible sigmoidoscopy every 5 years



Stool-based tests:

- Annual high sensitivity guaiac FOBT
- Annual fecal immunochemical test
- Multi-targeted stool DNA test / 3 years

C-Pette® and C-Pette-E



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



Scan to explore Labcon Plastics

C-PETTE AND U-PETTE ARE AVAILABLE DIRECTLY FROM LABCON - 800-227-1466

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

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

Scan to explore H-Pette

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



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