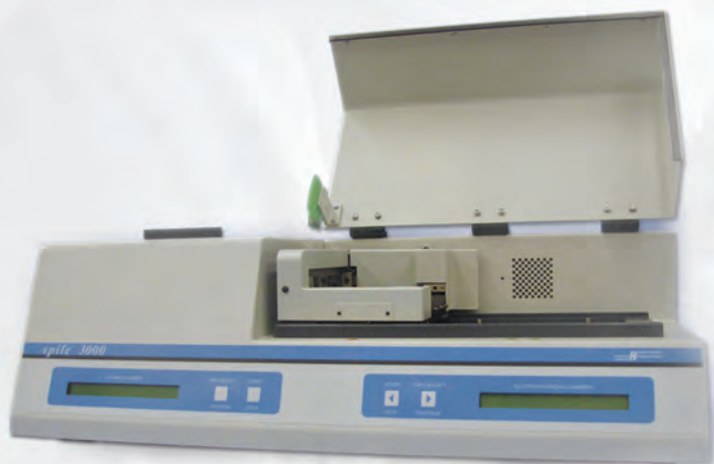




INTEGRATED SOLUTIONS > SPIFE > QUICKSCANTOUCH > QUICKGEL



SPIFE® 3000

The SPIFE 3000 separates and develops up to 1400 SPE samples or 210 IFE profiles in an 8-hour shift, with integrated sample and reagent application. Its barcode "lockout" feature provides positive ID between sample tray and electrophoresis gel.

- Designed for organized workflow
- Temperature controlled electrophoresis
- On-board auto stainer
- Multiple assays and gel sizes

ESH TOUCH

SPIFE 3000

INTEGRATED SOLUTIONS



ESH Touch

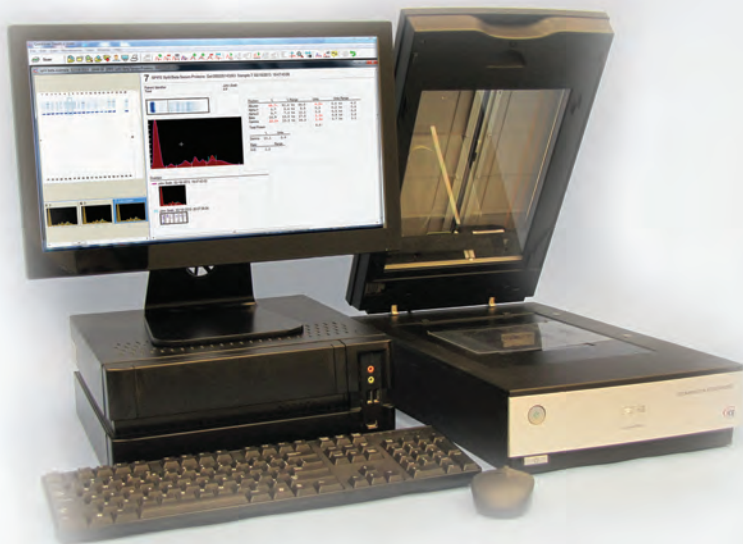
ESH Touch provides automated front-end specimen processing for the SPIFE 3000 with positive patient ID and interface to QuickScan Touch or LIS.

- User-friendly touch screen interface
- Primary tube sampling with liquid level sensor
- 100-sample capacity
- Flexible dilutions, i.e. per sample
- Barcode reader with LIS interface

QuickScan Touch

QuickScan Touch gives you all the features you love about our QuickScan series of scanners with the added benefit of a high resolution monitor for clearer pattern presentations and a touch screen for easier user interface and menu navigation.

With new features like reverse imaging, adjustable contrast and brightness, and mid-spike cursor positioning for demarcation, QuickScan Touch makes it easier to assess M-proteins. Data handling is a breeze too with essentially unlimited demographics, tests, comments and customizable worklists.



INTEGRATED SOLUTIONS

QUICKSCAN touch



POSITIVE ID



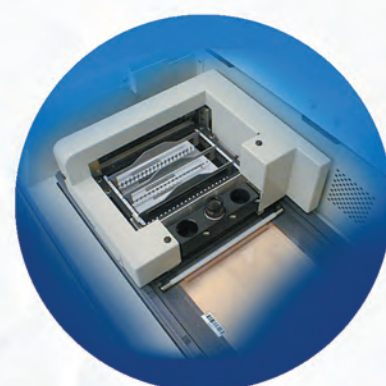
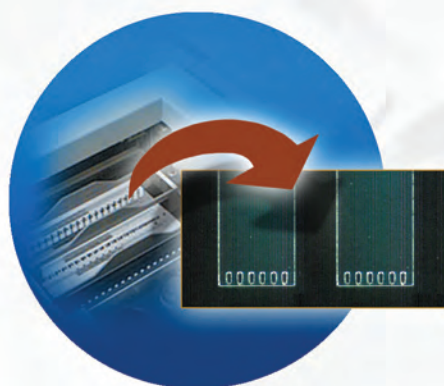
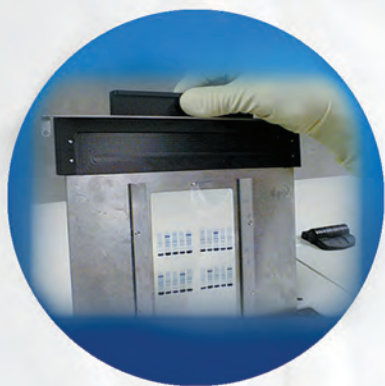
**AUTO
SAMPLING**



**AUTO
PROCESSING**



**EASY
SCANNING**



SPIFE[®] 3000 SYSTEM

Designed with You in Mind

The SPIFE 3000 system provides the automation busy labs need for separation and staining of visible electrophoretic analytes. Besides being a superior system for IFE, Proteins and Hemoglobins, the SPIFE 3000 makes short work of Direct Cholesterol profiling. Expanded menu choices (CK, LD and Alk Phos Isoenzymes, Lipoproteins, IgG IEF, and Hgb IEF) add to the versatility and utility of the SPIFE 3000 system. Multiple gel sizes – 10, 20, 40, 60, 80, or 100 samples – are available to meet whatever your test volume demands.

Accurate Sampling

The integrated applicator precisely applies up to 100 samples at once – fast, clean and accurate. Mylar applicator tips prevent protein adherence that can cause erroneous results.

New QuickGels[®]

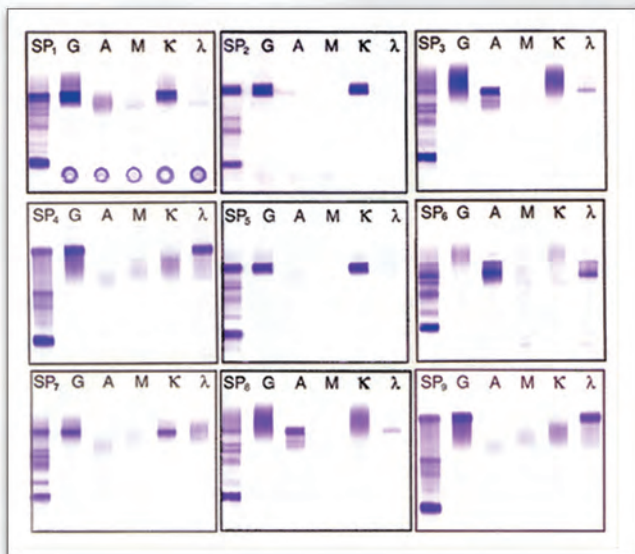
Easily electrophorese and auto stain small QuickGels. Apply 10 to 20 samples per gel.

Positive ID

SPIFE 3000 compares the barcodes from the sample tray and gel – if no match, “lockout” prevents errors.

Reagent and Stain Applications

Reagent is automatically applied to gels for enzymatic assays. On-line stains for visible analytes are also available.



SPIFE ImmunoFix

- 1, 2, 3, 6, 9 and 15 sample gels to handle a wide range of needs; maximum throughput of up to 210 profiles in an 8-hour shift
- Multi-channel pipetting simplifies application of color-coded antisera
- Affinity and avidity of antisera balanced for highest sensitivity with least amount of background blush
- Resolution and sensitivity of gel provide tight, crisp bands
- Acid violet stain enhances visualization

IMMUNOFIX

ImmunoFix

Cat. No. 3408 -	15 profile
Cat. No. 3409 -	9 profile
Cat. No. 3401 -	6 profile
Cat. No. 3406 -	3 profile
Cat. No. 3351 -	1/2 profile

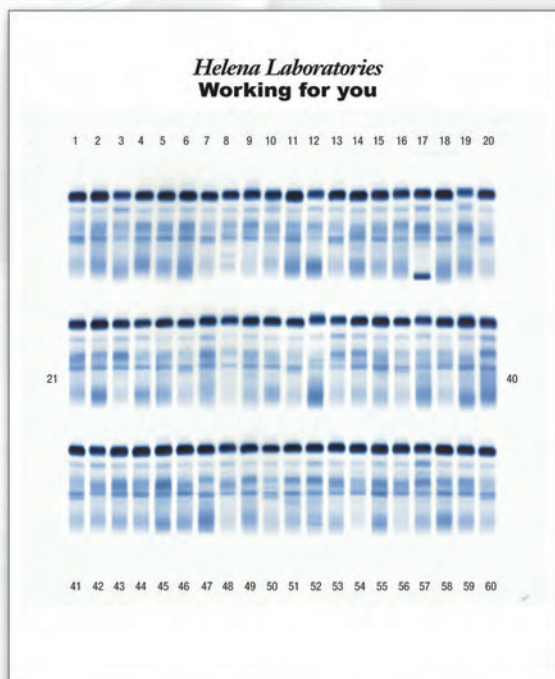
Split-Beta

Cat. No. 3398 -	100 sample
Cat. No. 3399 -	80 sample
Cat. No. 3420 -	60 sample
Cat. No. 3421 -	40 sample
Cat. No. 3422 -	20 sample
Cat. No. 3350 -	10/20 sample

Classic

Cat. No. 3460 -	60 sample
Cat. No. 3461 -	40 sample
Cat. No. 3462 -	20 sample
Cat. No. 3405 -	10 sample

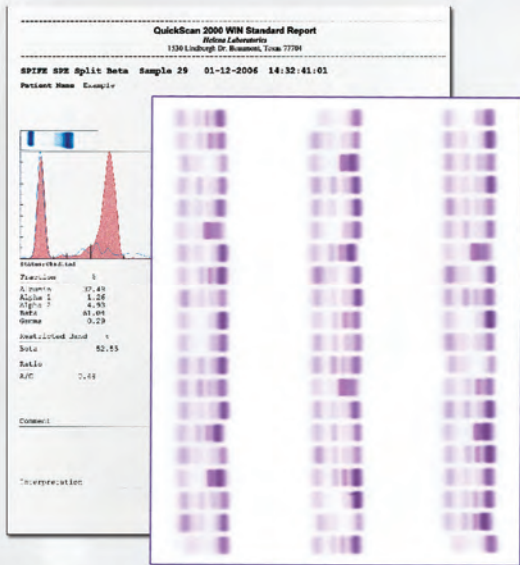
PROTEINS



SPIFE Proteins

While some laboratorians prefer classic serum and urine protein separations, others prefer a split-beta separation. Both are available on the SPIFE system, in gel sizes to suit any testing volume.

- Serum applied neat, no dilutions
- Application system is unaffected by triglycerides or large proteins
- Active cooling provides excellent separation without protein degradation
- 10, 20, 40, 60, 80 and 100-sample gels suit any laboratory need



SPIFE Cholesterol

Directly measure **HDL, LDL and VLDL** cholesterol along with **Lp(a)** cholesterol in a single run with excellent correlation to ultracentrifugation and a favorable reimbursement margin. SPIFE Cholesterol provides a "broadcut" LDL, like the CDC reference method, with no fasting. And SPIFE Lp(a) is a superior predictor of coronary disease.

Lp(a)-c Proven Risk Indicator

Angiography was performed on **504 patients**, including **271** with **>50% stenosis**, along with SPIFE Cholesterol, Lp(a)-mass and other risk markers. SPIFE Lp(a)-c proved a significant predictor of CHD risk, while Lp(a)-mass was irrelevant.* Four years later, 466 of the initial 504 patients were available for followup. SPIFE Lp(a)-c remained the clear winner for predicting cardiovascular events.* **It's important to know your Lp(a)!** Call us today to schedule an in-lab SPIFE Cholesterol screening.

*Baudhuin, et al. Clin Chem 2003, Vol 49:6, Suppl, F-61.

*McConnell, et al, Circulation 2007 116: II 818

Cholesterol Profile

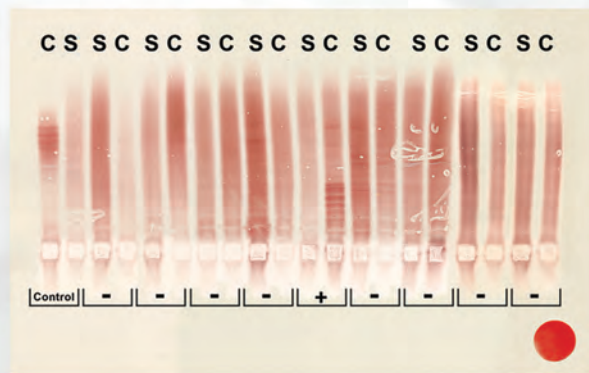
Cat. No. 3438 -	100 sample
Cat. No. 3439 -	80 sample
Cat. No. 3440 -	60 sample
Cat. No. 3441 -	40 sample
Cat. No. 3442 -	20 sample
Cat. No. 3443 -	10/20 sample

SPIFE® 3000 SYSTEM

SPIFE IgG IEF for Multiple Sclerosis

Laboratory detection of intrathecal IgG synthesis is considered essential for diagnosing **multiple sclerosis**. This gold standard technique uses the **SPIFE system** to perform isoelectric focusing on cerebrospinal fluid and serum followed by immunoblotting to detect the presence of oligoclonal bands. Both 5-profile and new 10-profile gels are available.

- Uses unconcentrated CSF
- More sensitive than high resolution electrophoresis or nephelometry
- Resolution superior to other IEF methods
- Suitable for routine clinical use

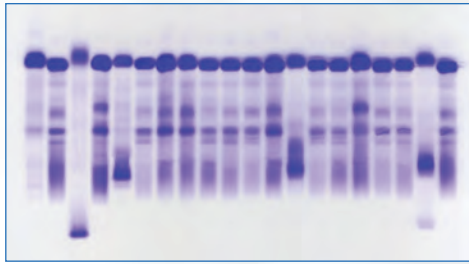


S = Serum

C = CSF

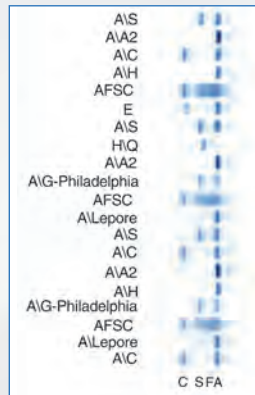
Cat. No. 3389 - 5 profiles

Cat. No. 3385 - 10 profiles



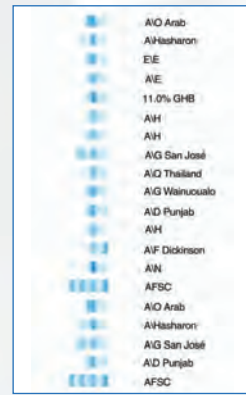
Hi-Res Proteins

Cat. No. 3430 - 15 sample



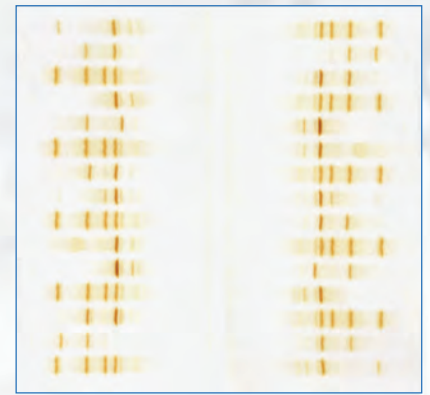
Alk Hgb

Cat. No. 3415 - 20 sample
Cat. No. 3429 - 10/20 sample



Acid Hgb

Cat. No. 3418 - 20 sample
Cat. No. 3419 - 10 sample



Hgb IEF

Cat. No. 3428 - 30 sample

HI-RES PROTEINS

LIPOPROTEINS

ALKALINE PHOSPHATASE

HGB IEF

OTHER SPIFE ASSAYS

ALK HGB

LD ISOENZYMES

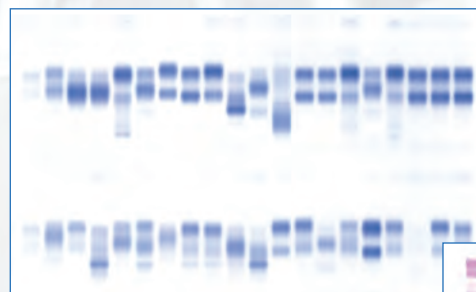
ACID HGB

CK ISOENZYMES



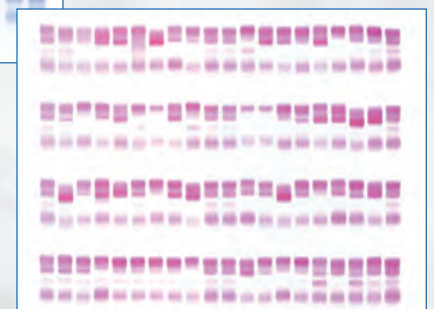
CK Isoenzymes

Cat. No. 3332 - 40 sample
Cat. No. 3333 - 20 sample
Cat. No. 3334 - 10/20 sample



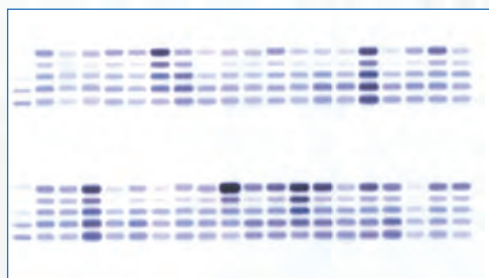
Alkaline Phosphatase

Cat. No. 3346 - 40 sample
Cat. No. 3345 - 20 sample



Lipoproteins

Cat. No. 3340 - 80 sample
Cat. No. 3341 - 60 sample
Cat. No. 3342 - 40 sample
Cat. No. 3343 - 20 sample



LD Isoenzymes

Cat. No. 3335 - 60 sample
Cat. No. 3336 - 40 sample
Cat. No. 3337 - 20 sample
Cat. No. 3338 - 10/20 sample

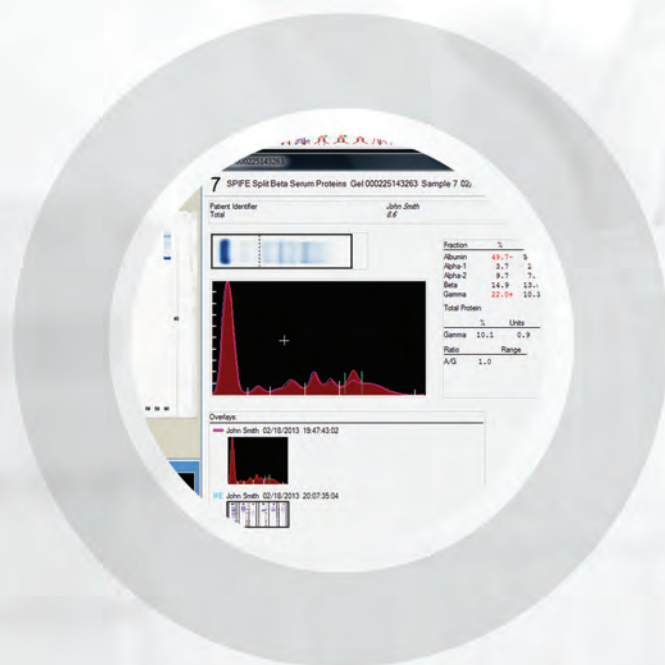


QuickScan Touch

Touch the screen and automatically demarcate the M-spike. Swipe the slider and reverse the pattern image for easier analysis. Automatically overlay previous patient results from a massive data store. These are just a few features of the newest QuickScan densitometer.

QUICKSCAN Touch

The QuickScan Touch builds on the proven success of the QuickScan series, adding a high resolution monitor for sharper patterns, an easy to use touch screen interface, user ID audit trail and essentially unlimited data storage.



High Def Touch Screen – Sharper patterns and adjustable contrast and brightness enhance visualization of small bands. The touch screen makes for easy menu navigation, scanning and editing.

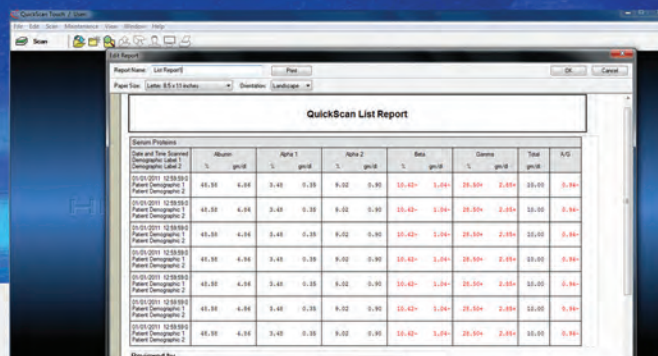
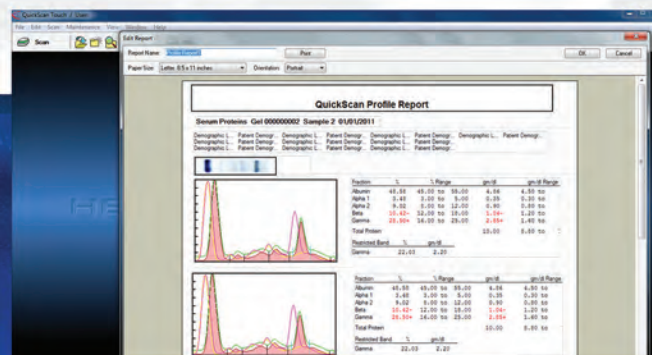
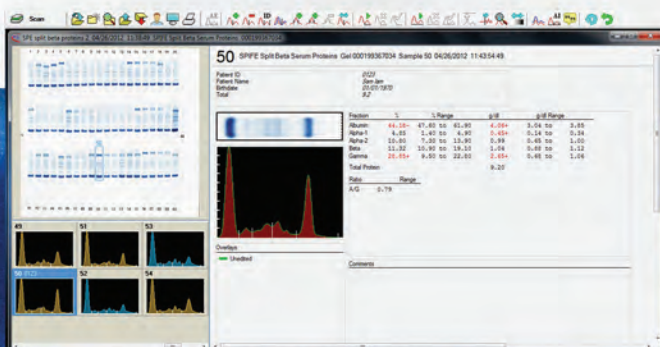
New Reverse Image – Invert the background of IFE images onscreen to create a “negative” view to enhance visualization and aid in interpretation. View simultaneously with positive image system.

Easy M-Spikes – Place cursor in the middle of the M-spike and the system auto delimits. This provides greater consistency between users. Users can adjust marks.

User Access – Set access for each user's ability to edit patient info or scans, import or export, print, change setup or work list settings or change calibration. User IDs are stored with the scan to identify who scanned, who reviewed, who edited, whether or not rescanned and who rescanned.

Auto Pairing – Auto pair previous patient results for a specified test and date range and overlay up to two previous scans on current results.

Auto Editing – Intelligent software gives the flexibility to quantitate split beta SPEs as one fraction or two and intuitiveness to automatically edit cholesterols.



Positive ID – Barcoded gels allow positive ID from patient tube to final results. Using the Electrophoresis Sample Handler, QuickScan Touch can download worklists created from barcoded samples. Patient data can also be imported from LIS.

Massive Data Storage – Store all the demographics, tests, comments and customizable worklists you want. The only limitation is the size of the storage drive. The number of characters in labels or fields is essentially unlimited.

User-Defined Reports and Worklists – Reports and worklists are completely customizable. Create a single-page report that includes one patient's SPE and IFE with interpretation, or print up to 100-scan profile of the patient's entire history – easily.

Customized Interpretive Analysis – Build your own decision limits and interpretive comments library, making reporting results a snap. Comments can be automatically added or coded for quick retrieval. Text can be easily amended.

Network Capability – Patterns can be reviewed and edited remotely over the LAN.

Quality Control – Touch the QC icon to set the QuickScan Touch in motion to scan a linearity step-tablet and neutral density control. Levy-Jennings plots are also available for easy evaluation of QC data.

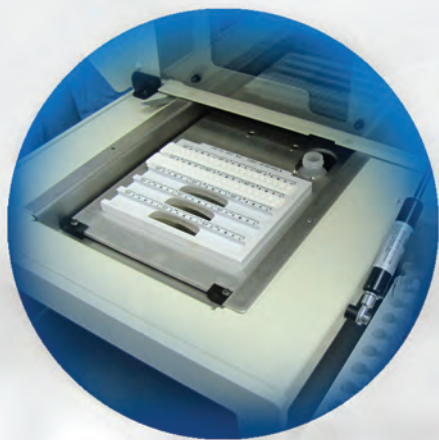


New! ESH Touch

The next generation of **Electrophoresis Sample Handler** will soon join the Touch Series of analyzers as part of **Helena's integrated solution** for high volume electrophoresis workloads. Like its predecessor, **ESH Touch** provides automated front-end specimen processing for the SPIFE 3000 with positive patient ID and interface to QuickScan Touch or LIS - but in a smaller, faster, quieter, more flexible and user-friendly package.

ESH Touch transfers samples directly from primary patient tubes to barcoded sample trays, ready for application to agarose gels by the SPIFE 3000. A 100-sample capacity accommodates the largest SPIFE 3000 gels and dilution schemes for each sample can be specified. A touch-screen interface makes the system easy to use.

ESH TOUCH



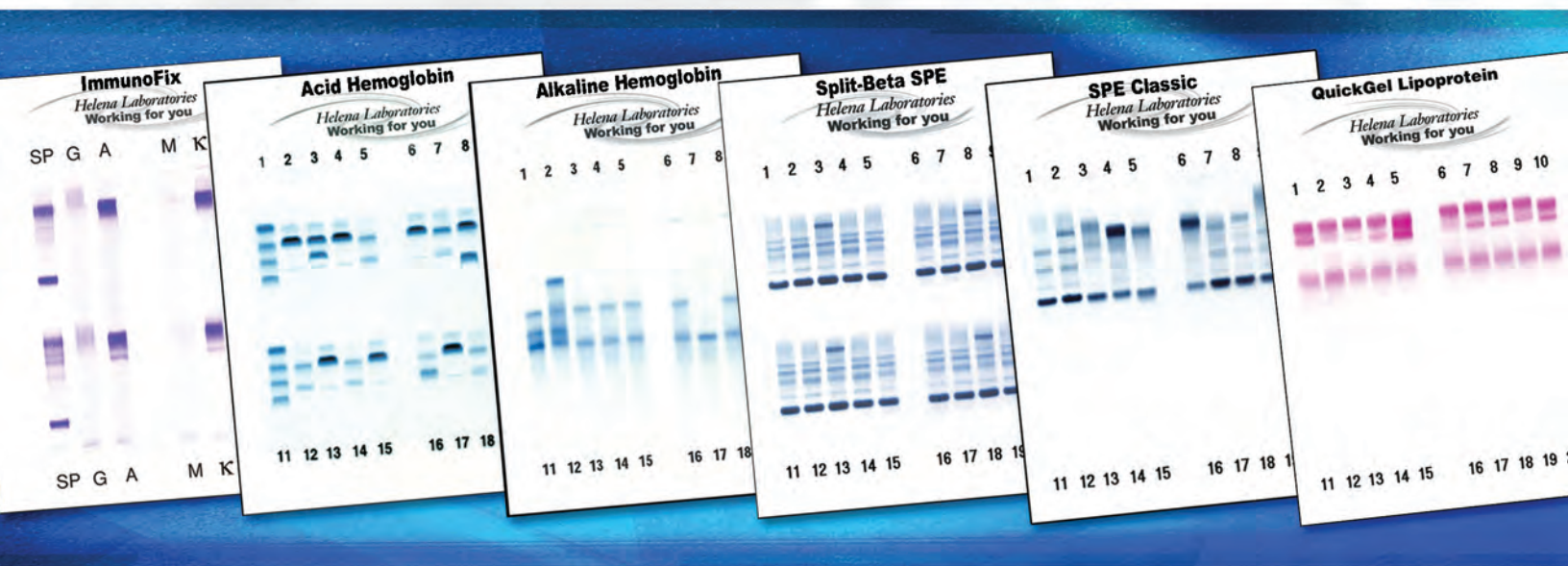
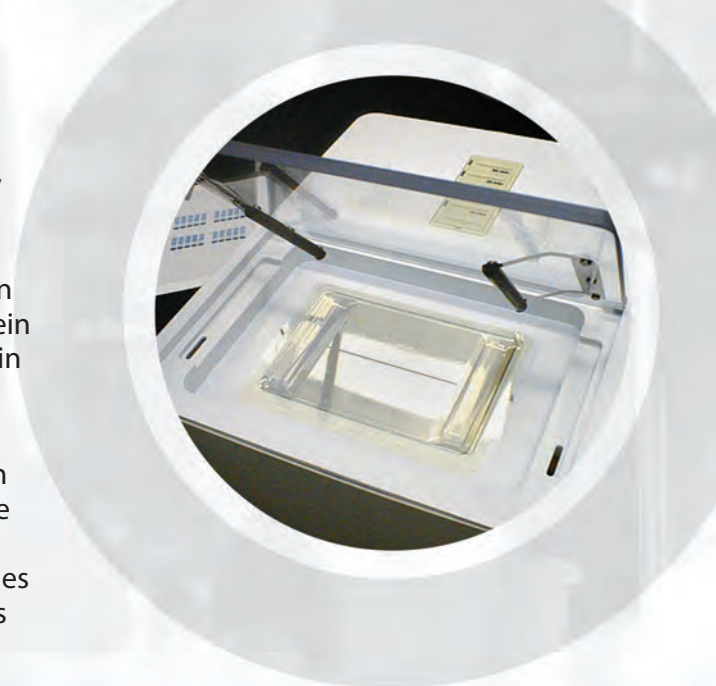
- User-friendly touch screen interface
- Primary tube sampling with liquid level sensor
- Barcode reader with LIS interface for positive ID
- 100-sample capacity
- Flexible dilutions, i.e. per sample
- Smaller footprint
- 50% faster sample tray preparation
- Improved level and tube detection
- Quieter operation
- Projected Availability: Fall 2014

QuickGel® Manual Electrophoresis

QuickGel electrophoresis products are compact and easy to use, allowing cost-effective manual separations without sacrificing quality or accuracy.

The **QuickGel Chamber** features a cooled electrophoresis platen and built-in carbon electrodes. The cooled platen prevents protein degradation and provides crisp separations. Just set a QuickGel in place and close the lid to begin electrophoresis.

The QuickGel Chamber also serves as an incubator and dryer by simply changing out the lid. Get it all – electrophoresis, incubation and drying – in a tiny 8.5" x 10.5" footprint. Recommended for use with the QuickGel Chamber is the completely solid state **TITAN Plus Power Supply**. A digital voltage and current display provides greater accuracy in voltage selection. Synchronous timer assures precise control with automatic end-of-run signal and shut-off.



QuickGel CK & LD Isoenzymes

Separate major isoenzyme fractions quickly and efficiently.

QuickGel SPE – Split Beta or Classic

Whether you choose split-beta or classic 5-banded gels, resolution is excellent.

QuickGel Acid & Alkaline Hemoglobins

Both Alkaline and Acid Hemoglobin QuickGel methods use acid blue stain for excellent sensitivity and stability in storage.

QuickGel IFE

Profile two different patients on one gel or profile a patient's serum and urine simultaneously.

QuickGel Cholesterol

Directly and accurately measure HDL, LDL, VLDL and Lp(a).

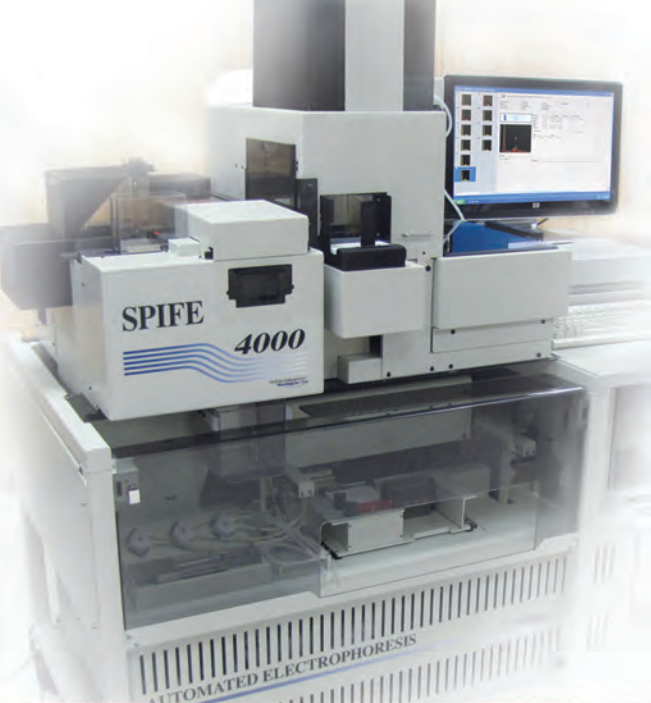
QuickGel Lipoprotein

Separate and quantitate the major lipoprotein fractions.

QuickGel Assays/Manual Electrophoresis

Cat. No.	Item	Description*
3505	QuickGel SPE Vis	10/20 samples
3505T	QuickGel SPE Vis	10/20 samples
3519	QuickGel Acid Hemoglobin	10/20 samples
3529	QuickGel Alkaline Hemoglobin	10 samples
3529T	QuickGel Alkaline Hemoglobin	10 samples
3534T	QuickGel CK Isoenzyme	10/20 samples
3538T	QuickGel LD Isoenzyme	10/20 samples
3543T	QuickGel Cholesterol	10/20 samples
3550	QuickGel Split-Beta SPE	10/20 samples
3550T	QuickGel Split-Beta SPE	10/20 samples
3551T	QuickGel ImmunoFix	1 or 2 profiles
3544T	QuickGel Lipoprotein	10 samples

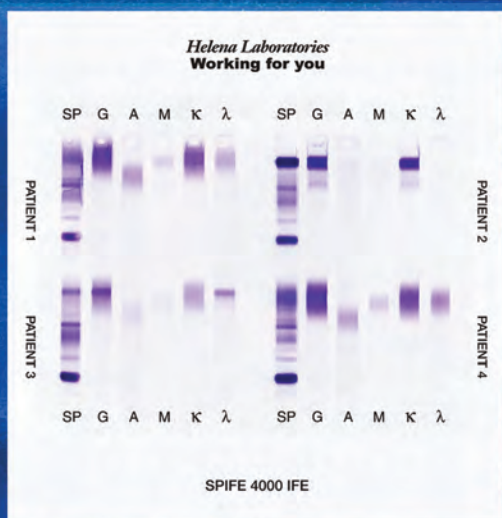
Note: "T" indicates template application kits



SPIFE® 4000 All-in-One Fully Integrated System

Need more automation for proteins and immunofixation? Look no further than SPIFE 4000 for batch-mode, walkaway automation. This new analyzer does all the work, start to finish – including antisera application – without sacrificing resolution, ease of interpretation or versatility.

All aspects of sample handling and gel transfers are automated by SPIFE 4000. Samples are extracted from barcoded collection tubes, applied to gels and moved through all aspects of electrophoresis and densitometry. Positive ID is verified from start to finish.



Integrated Sample Handler

- Liquid sensing
- Positive patient ID from tube to final report
- Automatically makes dilutions for IFE

Auto Scanning

- Automatic setting of scan parameters
- Full editing and interpretation, if the operator chooses
- Final results can be printed and/or exported to LIS

Auto Applicator and Electrophoresis

- Auto blotting and sample application
- Peltier-driven temperature controlled chamber
- Auto reagent and antisera application

New applications under development...

SPIFE 4000 will offer a new level of automation for traditional hemoglobin assays:

- Acid hemoglobins
- Alkaline hemoglobins
- IEF hemoglobins
- Cholesterol

