helena
Biosciences Europe

V8 E-CLASS

One Small Step for Automation…

V8 is revolutionising the clinical laboratory for customers around the world. V8 E-Class is a second-generation system with unique advancements in automation, analysis and useability.

Gel Integration 10

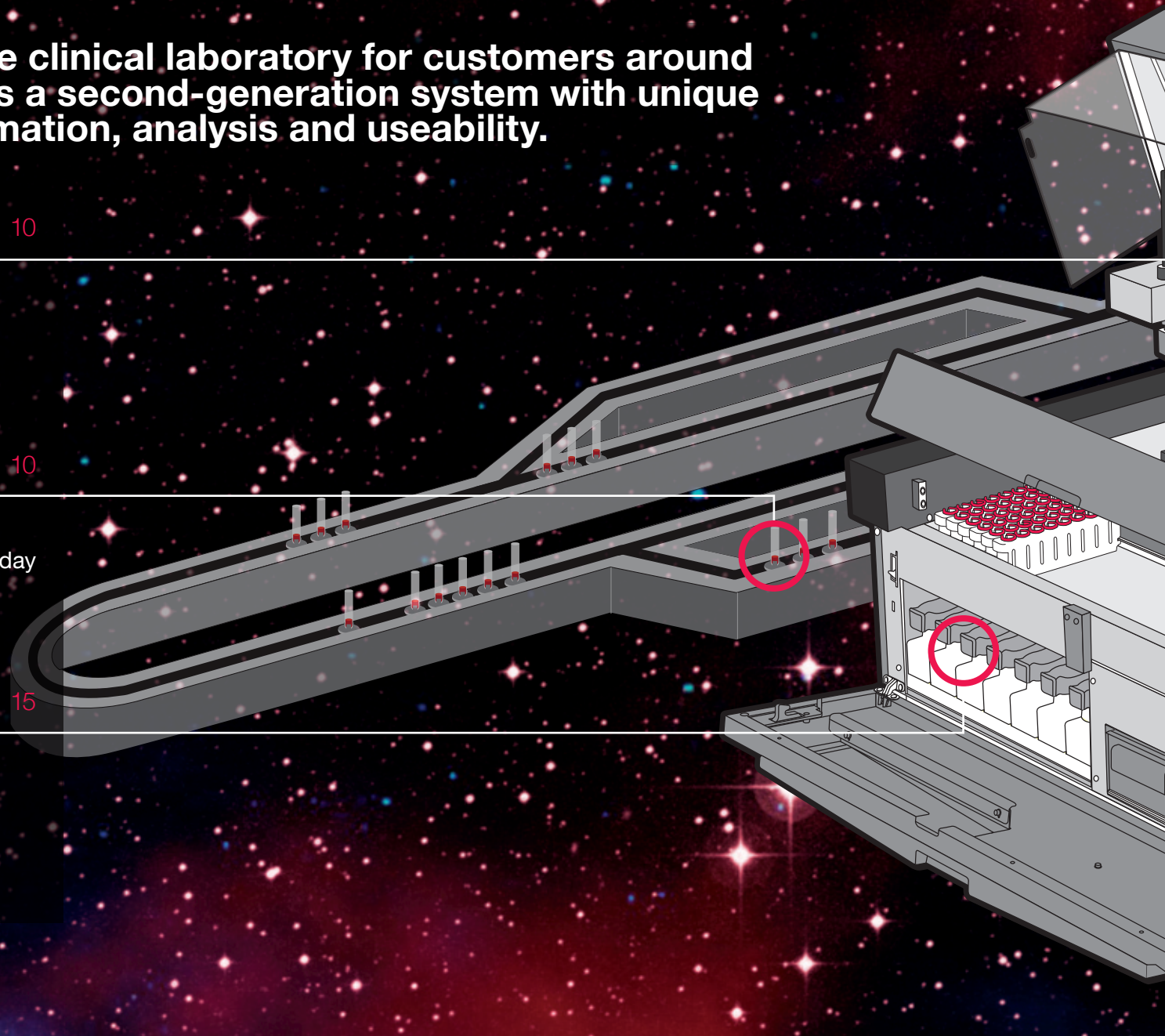
- Automated gel tray preparation
- Supports SAS and SPIFE gel tray
- Load up to 60 samples per gel

Sample Track Systems 10

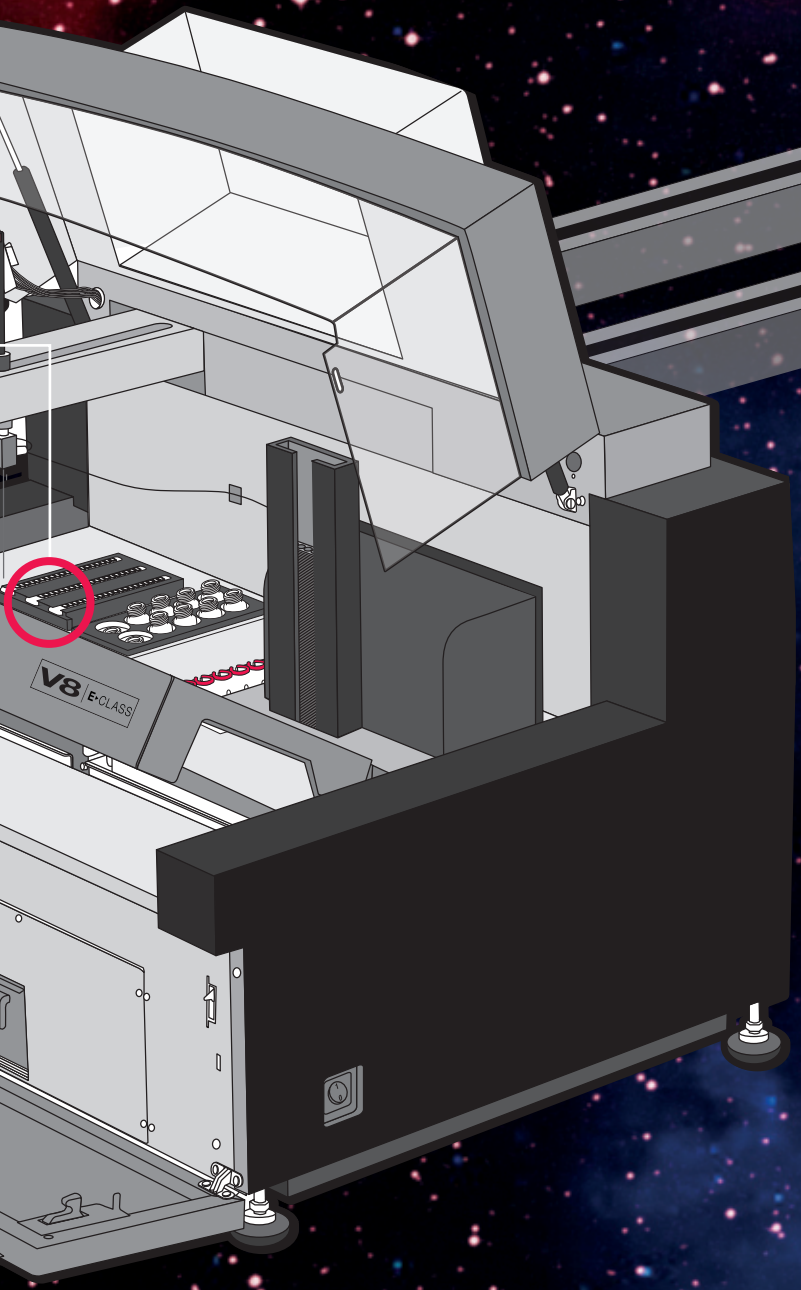
- Inpeco® FlexLab connectivity
- Throughput 1728 Serum Proteins per day
- Fully-automated sample preparation

V8 E-Class Assays 15

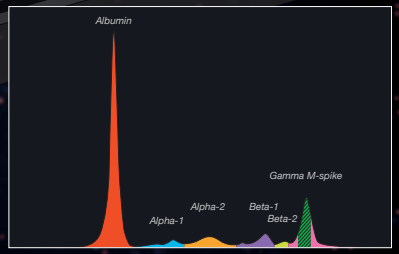
- Extensive family of optimised kits
- Serum Proteins
- Urine Proteins
- Immunodisplacement
- Haemoglobin IEF
- CDT Auto



One Giant Leap for Capillary Electrophoresis



Clear, High-Quality Results 5

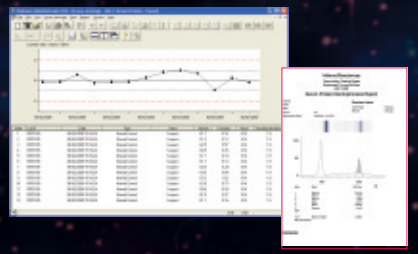


- Automatically coloured and labelled bands
- Intelligent peak detection
- Unsurpassed sensitivity and resolution

Network Results and Editing 13

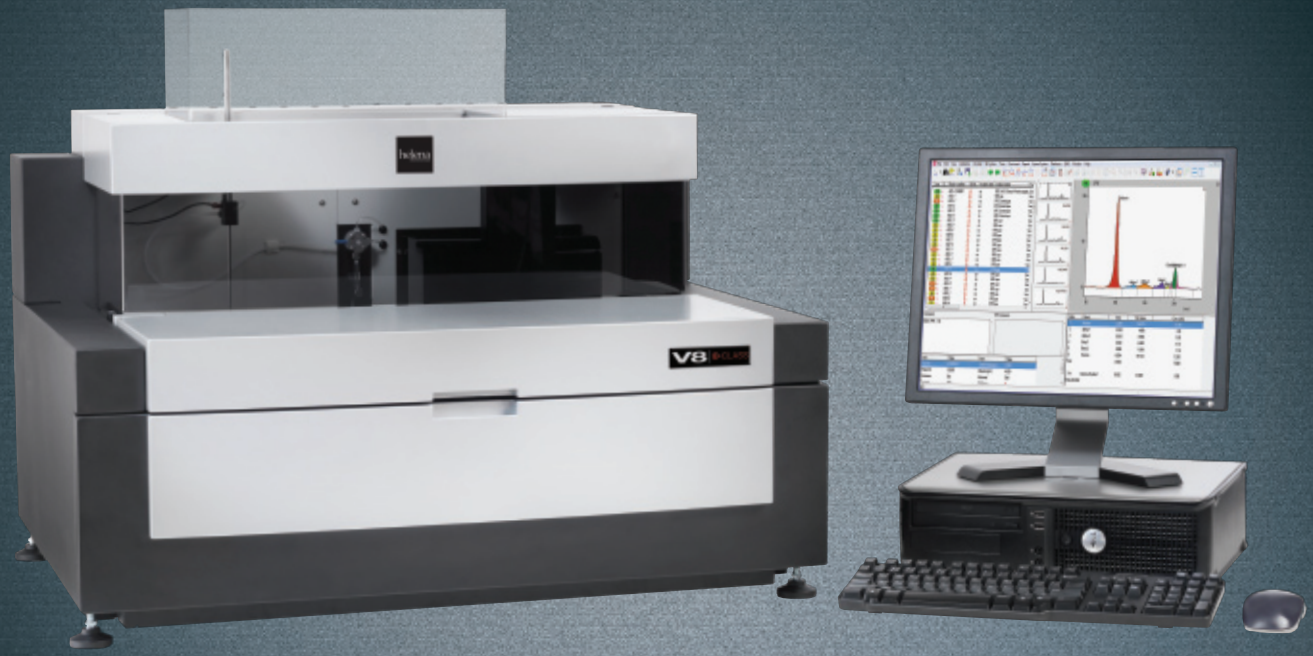
- Remote database access
- View, edit and report results when and where convenient
- One shared database for all your electrophoresis results

Advanced QC and Reporting 14



- Intuitive onboard QC package
- Normal and Abnormal control material
- Report results locally and through a LIMS/LIS package
- Customiseable reporting package

Evolution in 21st Century Clinical Electrophoresis



Automation page 5

- Velocity CE
- Multi Assay
- Continuous Loading
- Gel Integration
- Complete Chemistry
- Fast Track

Intelligence page 11

- Auto Pilot
- Expert System
- Intuitive Status
- Smart System
- Reflex Testing
- True Identity

Assays page 15

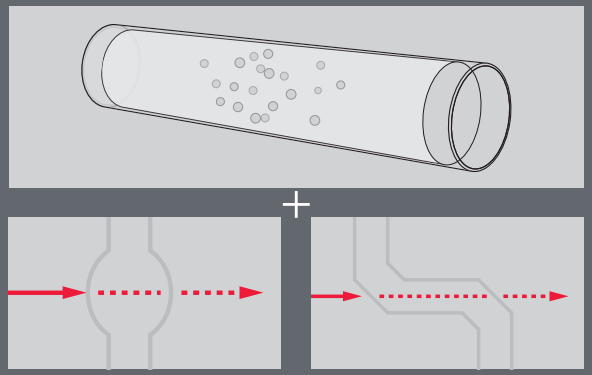
- SP Serum Proteins
- ID Immuno-displacement
- CDT CDT Auto
- Ur Urine Proteins
- Hb Haemoglobin IEF

Superior separation, resolution and quantitation for precision and accuracy

V8 E-Class utilises sample stacking and industry-leading capillary path length technology to provide superior signal-to-noise levels, sharper responses, greater resolution and greater absolute sensitivity.

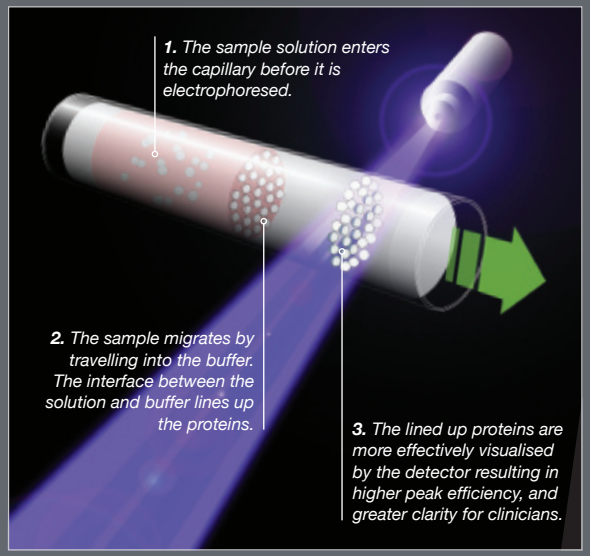
1 Alternative CE systems rely on inferior designs.

Issues of protein dispersal within the capillary leads to poor resolution and an inability to discern bands clearly:



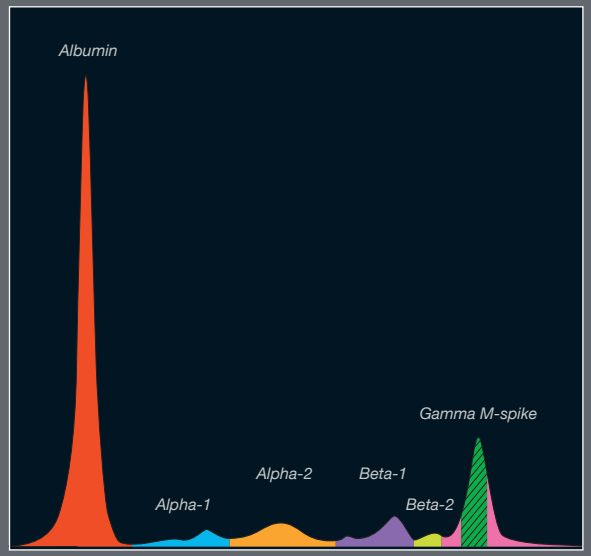
Coupled with inefficient optical designs that decrease path length and reduce sensitivity.

2 V8 E-Class utilises intelligent capillary design.



■ In-capillary sample stacking enables V8 E-Class to detect a clean, resolved trace.

3 Resulting in clear, high quality results every time.

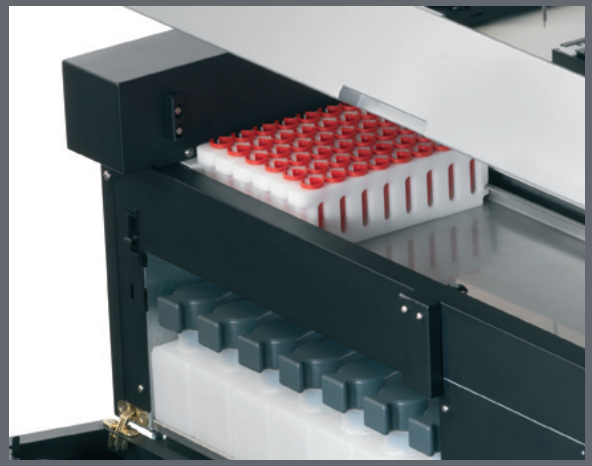


■ V8 E-Class presents a crisp, well-defined trace with excellent resolution and reproducibility.

Effortlessly streamline your workflow with superior walkaway automation

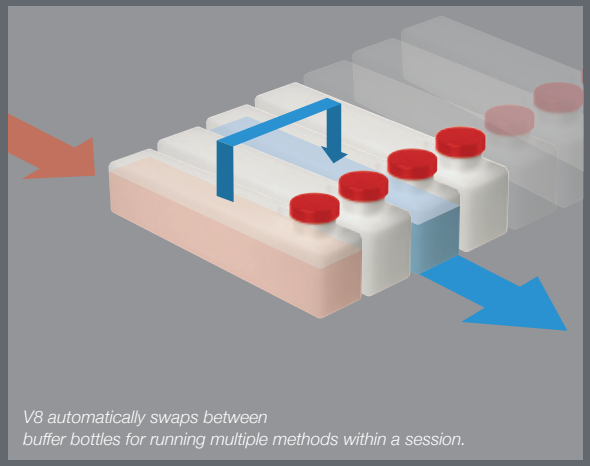
With fully automated method changes, buffer replenishment and on-board maintenance procedures, V8 E-Class offers continuous loading of up to 112 samples enabling multi-method sample preparation for gel electrophoresis and CE analysis.

1 Random-access loading — no workflow interruption.



- Continuous load up to 112 samples on board
- Simply load your samples and walk away

2 Switch reagent bottles automatically.



V8 automatically swaps between buffer bottles for running multiple methods within a session.

- Change from an empty bottle to a full one
- Swap chemistries automatically

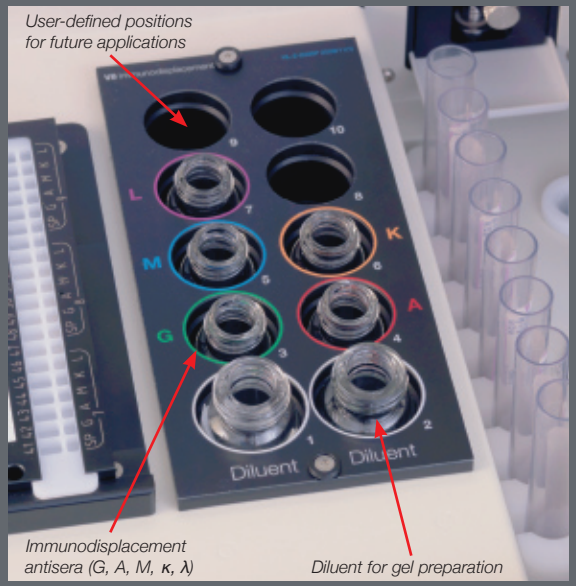
3 Automatic purging, start up and shut down procedures.

- All maintenance and decontamination handled automatically
- Simple switch activated

Intelligent flexibility at your fingertips
for efficiency in laboratory workflow

With all the necessary buffers and reagents on-board, V8 E-Class is a powerful multi-tasking machine that will analyse samples by CZE, prepare urines for gel electrophoresis, whilst processing sample results from a reflex immunodisplacement request.

1 Four user-defined buffer positions and ten temperature controlled reagent positions for on-board assay flexibility.



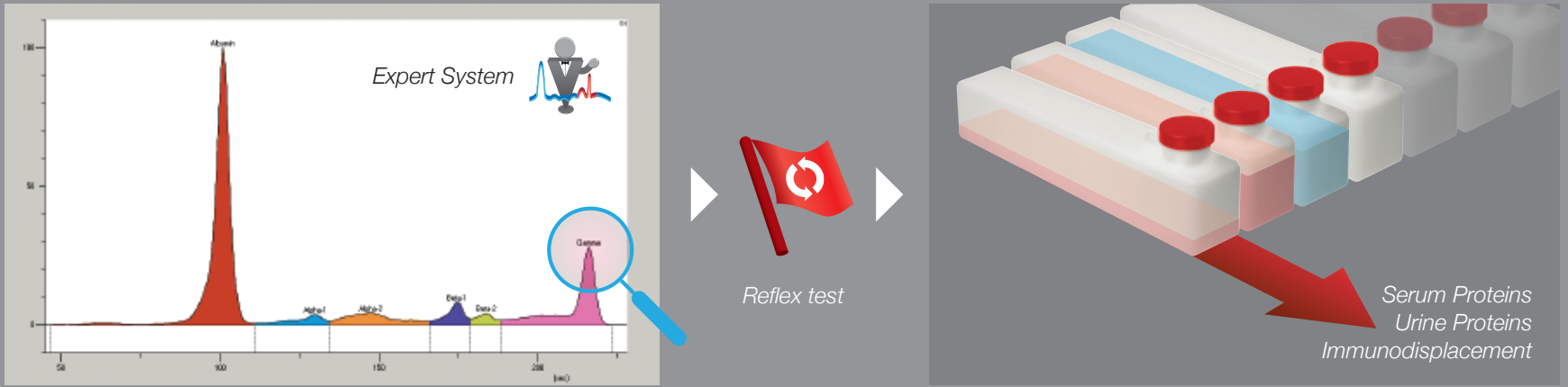
2 Random-access loading for interruption free operation.

Fully automate the workflow of on-board serum or urine samples for STAT, rack and batch prioritisation

Intelligent system design and functionality for precision and speed

V8 E-Class is a responsive system, with reflex testing and sample recall functionality allowing on-board samples to be assayed automatically for further testing.

1 Samples can be retrieved for Immunotyping or further testing simply and automatically with the Expert System. Even the interpretation is automatic.

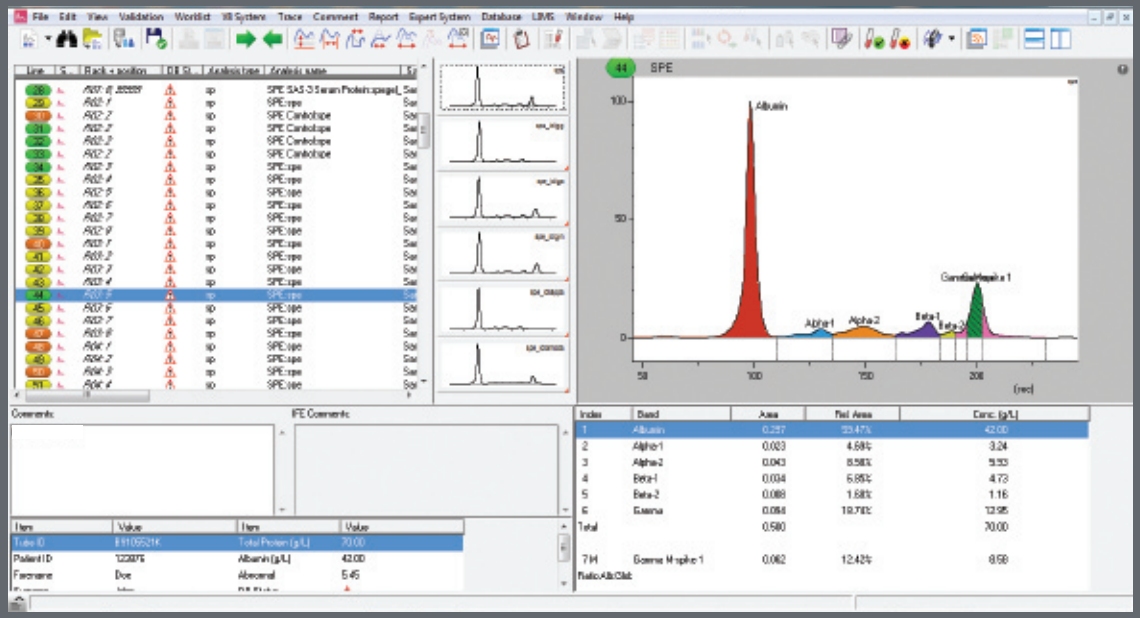


- Expert system utilises user definable criteria to sort sample results to facilitate speedy interpretation and fully automating reflex testing
- Shared buffer systems allow simultaneous running of Serum Proteins, Immunotyping, Urine Proteins and Urine Immunotyping for most efficient work flow, even in the same rack

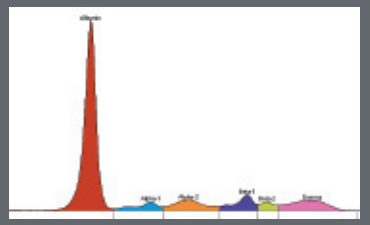
Intelligent, sophisticated and easy to use – Platinum 4.1 – the ultimate software package

Platinum 4V continues to evolve to offer the most up to date and user friendly software interface possible. With improvements to visual design, user options and software functionality, and now more user-friendly.

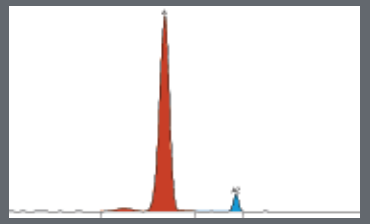
1 Now easier to use than ever. Clear, configurable Platinum 4V display for V8 control and results interpretation.



2 Clear, easy to interpret trace displays.



Serum Protein



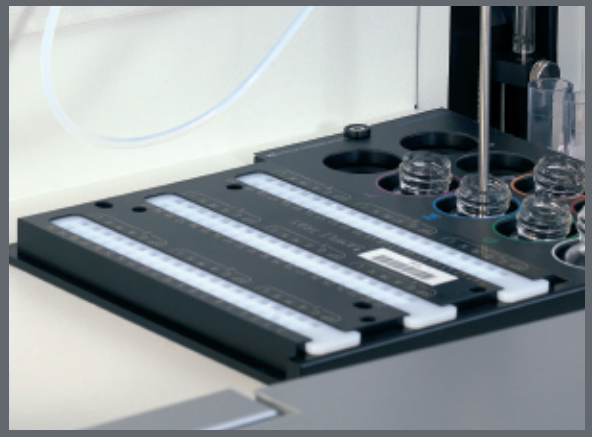
Haemoglobin IEF

- Overlay multiple traces for result comparison and disease state monitoring
- Coloured peaks for clear delineation of bands

Get on track with unparalleled connectivity to the modern laboratory

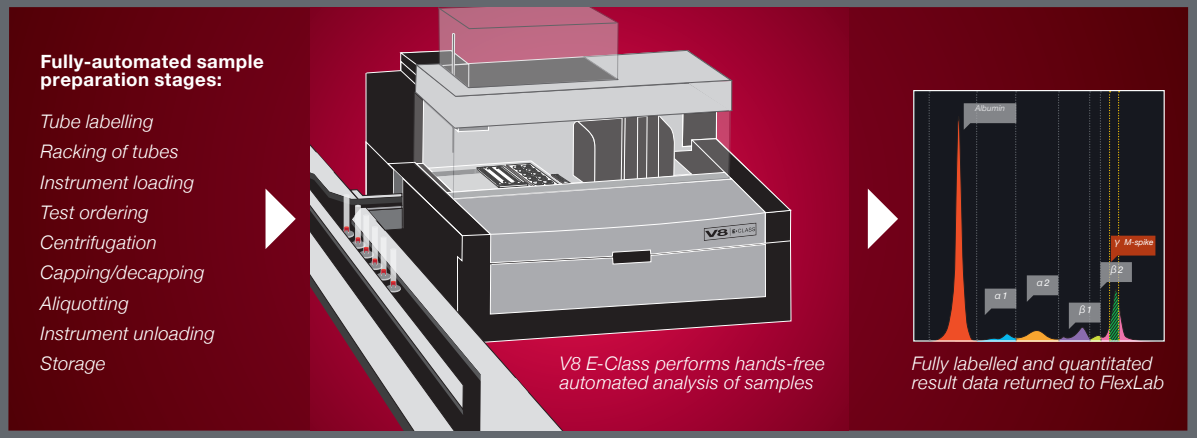
V8 E-Class offers revolutionary gel and sample track integration, connecting CE and gel electrophoresis testing to the modern laboratory, including all of the advantages of Platinum 4.1, for the ultimate in LIMS flexibility and brand leading sample track compatibility.

1 Automated on-board preparation of gel trays.



- Utilise the V8 as a fully automated sample handler with unsurpassed result traceability
- Use reflex testing to prepare samples for immunofixation, urine and haemoglobin analysis

2 Inpeco® state-of-the-art compatibility with leading automated sample track systems.



- Intelligent sample batching for optimal buffer and reagent usage
- Sample tube receipt, preparation and instrument loading occurs automatically
- Platinum 4V automatically detects, labels and quantitates the results' bands with no manual editing tasks required

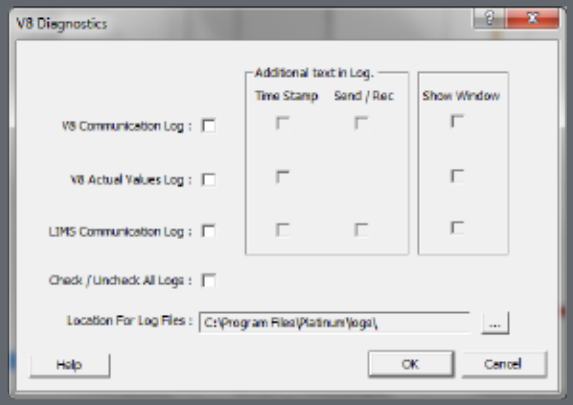
On-board diagnostics and communication systems for optimum and robust performance

With state-of-the-art diagnostic monitoring technologies and automated trouble-shooting procedures, V8 E-Class will deliver precision, reproducibility and operational robustness for maximum performance in the laboratory.

1 Pre-flight check for enhanced reliability.

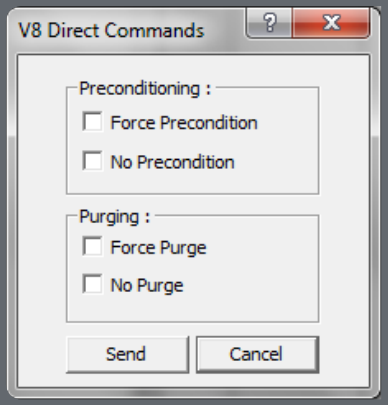
- Monitor temperature, voltage, current, pressure and all fluid levels to ensure maximum performance

2 Alert and communication logs for rapid diagnostics.



- Error logs and communication logs accessible within Platinum for simpler customer error reporting and analysis
- Communication logs allow engineers to pre-empt and resolve issues before they become apparent

3 Direct control to order capillary and fluid purges.



- Avoid time-consuming re-starts
- Skip purge and pre-condition for ultra-fast re-starts
- Bring capillaries back online easily

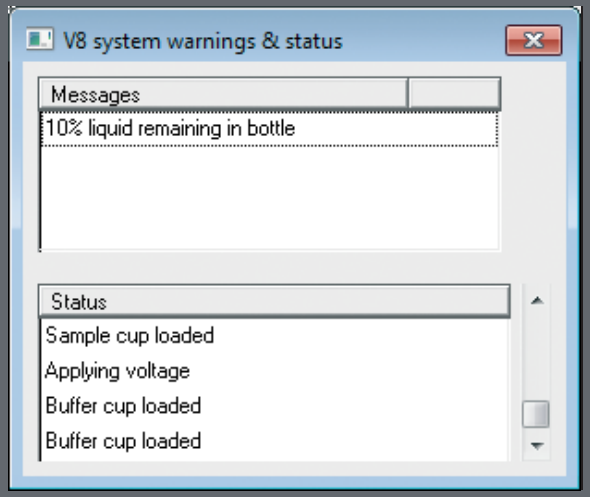
Sophisticated technology made simple
for ultimate user control

On-board system monitoring, communications and user controls will maximise system performance, enabling efficient buffer and reagent usage and optimum capillary conditions for clear, crisp high-throughput results for all assays.

1 Load multiple bottles for minimum user intervention.

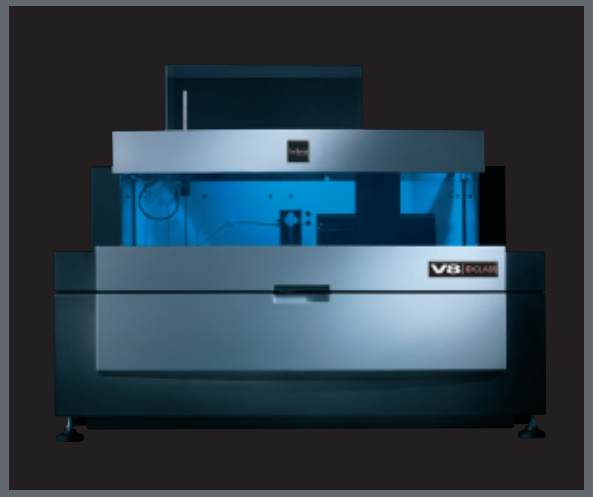
- Automated bottle switching when buffer bottles become depleted

2 Helpful status window for low fluid notifications.



- Warning window messages

3 Intuitive lighting for remote status updates.

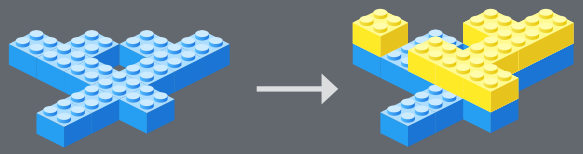


- Pulsing lighting system clearly visible across the laboratory
- Different colours indicate different status

Multiple V8s connected together for high-throughput multi-site access and analysis

Sophisticated software specifications will allow multiple V8s to be connected together for high throughput laboratories with large daily workload requirements and multi-site laboratories requiring remote access, editing and interpretation assistance.

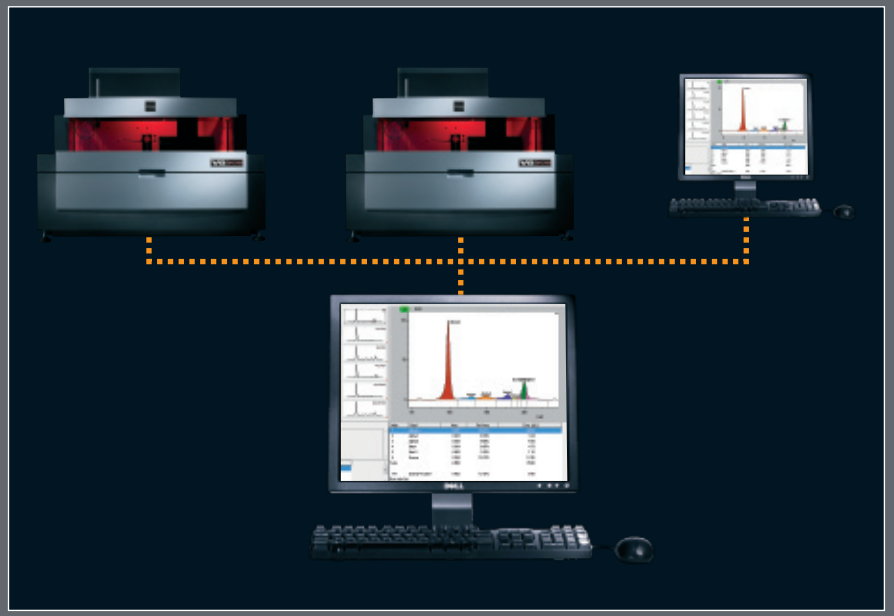
1 Modern software for power, flexibility and performance.



Newer software development tools make integrating future technologies and features easier, quicker and more cost-effective.

Platinum utilises a scaleable database design which allows for future expansion in capacity.

2 Connect multiple V8 E-Class analysers to Platinum 4V utilising one shared database.

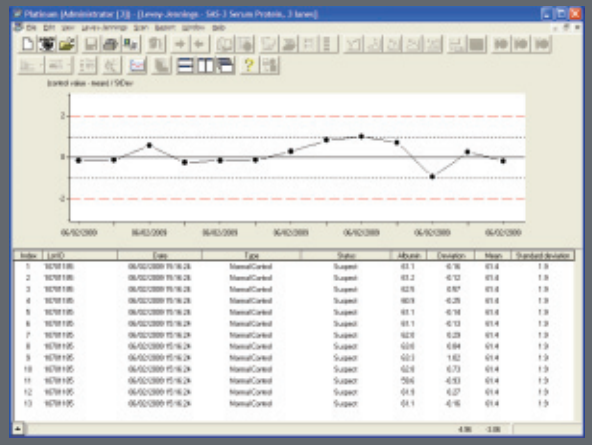


- Connect multiple V8 E-Class analysers to Platinum 4V
- Remote viewing and editing of diagnostic data
- Platinum 4V connects to a wide range of QC middleware products
- Multi-site networking capabilities for remote results analysis and data retrieval

Delivering security and traceability for superior quality control and audit requirements

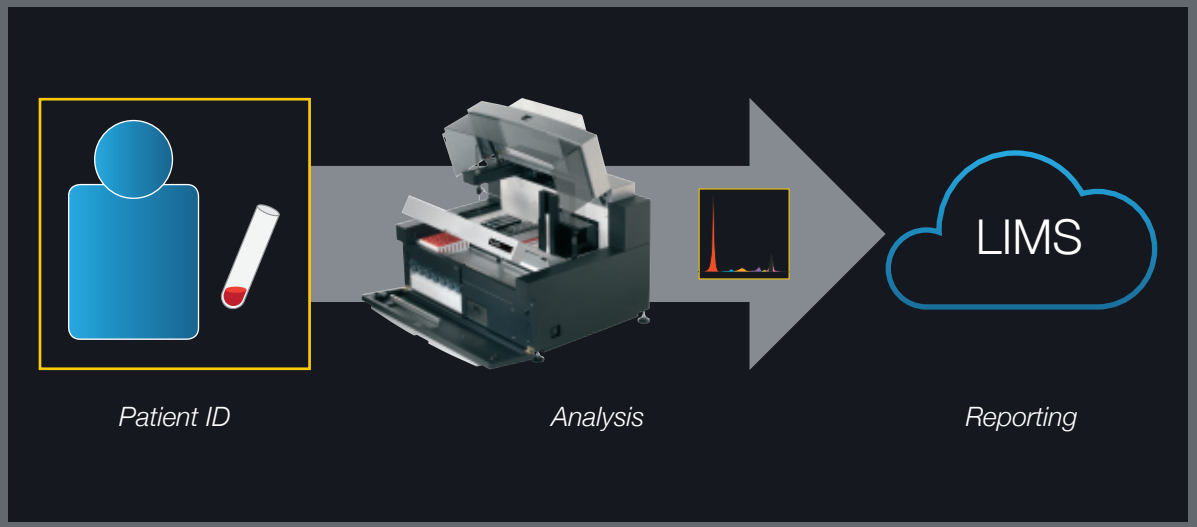
V8 E-Class is at the heart of a secure analytical process which ensures a reliable and convenient interpretation and reporting workflow.

1 Optimised CE controls for quality assurance.



- Sophisticated Levey-Jennings QC monitoring built-in to Platinum 4V
- Optimised normal and abnormal CE controls
- QC status display icons for each sample result

2 Full positive patient identification and linked traceability of patient sample and analytical data for complete peace of mind.

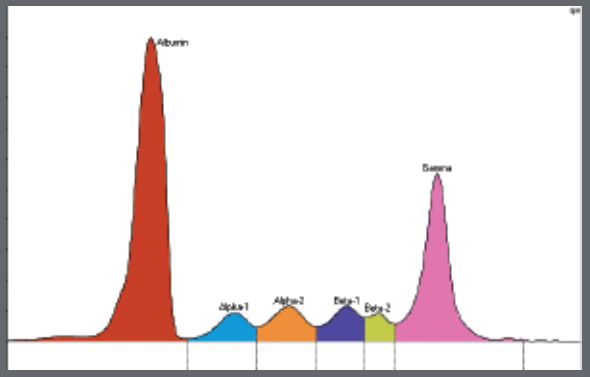


- TrueIdentity links and tracks all demographic and analytical data, creating a secure audit trail
- The system automatically retrieves and links any gel IFE results, along with historical results

High-throughput, high-resolution serum protein assays available

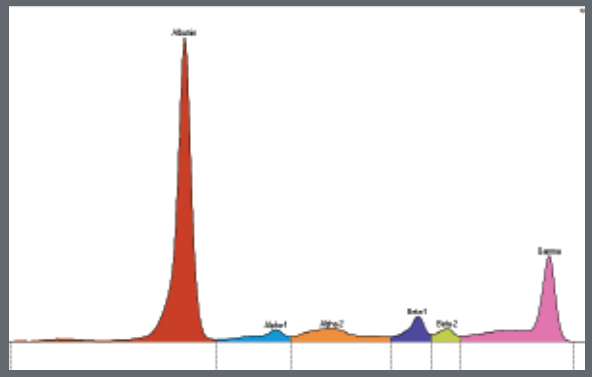
V8 E-Class Serum Protein assays allow customers to balance throughput and trace resolution, with on-board chemistries for walk away automation.

1 SP6 — high speed, high throughput.



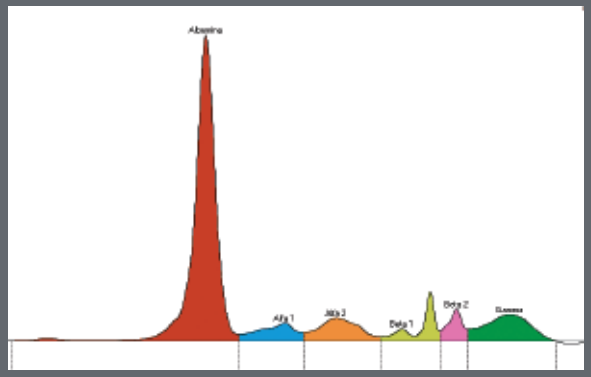
- High throughput assay designed for the larger laboratory
- Maintains enhanced resolution
- Fast efficient serum protein screening
- Traces visually similar to gel scans

2 SPE — increased resolution and sensitivity.



- Unsurpassed clinical sensitivity
- Increased protein separation
- Detection of low concentration paraproteins
- Detects additional bands for clinically important proteins such as Alpha-1 Antitrypsin

3 SP6 Zoom — ultimate high resolution.

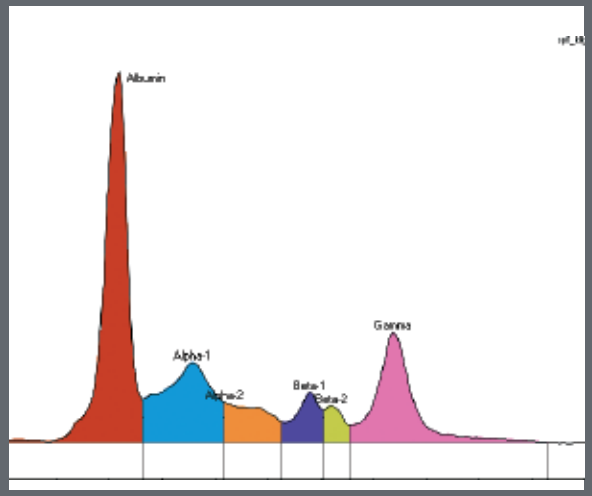


- Detects proteins at very low concentrations
- Separates proteins with similar electrophoretic mobility
- Enhanced sensitivity of the gamma and beta regions

Giving you flexibility and automated options in urine protein preparation and analysis

From urine CZE analysis to automated gel preparation, V8 E-Class delivers flexibility in a full suite of urine protein assays for specific laboratory requirements and workflow needs.

1 High throughput, high sensitivity urine protein CZE.

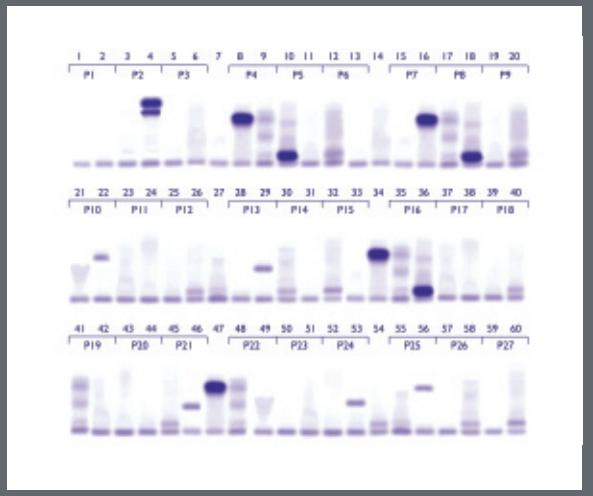


- High throughput, automated urine analysis
- Multiple desalting methods available
- Sensitive analytical method

2 Batch urines for fully automated urine preparation.

- Batch all urine samples for automated gel tray preparation

3 Urine sample preparation for gel electrophoresis.



- No manual preparation steps involved
- Superior sensitivity in urine protein analysis
- Urine analysis and urine IFE available

Automated Immunodisplacement assay with reflex to gel capabilities

V8 E-Class delivers a fully-automated Immunotyping platform providing total flexibility with Immunodisplacement and gel integration for Immunofixation.

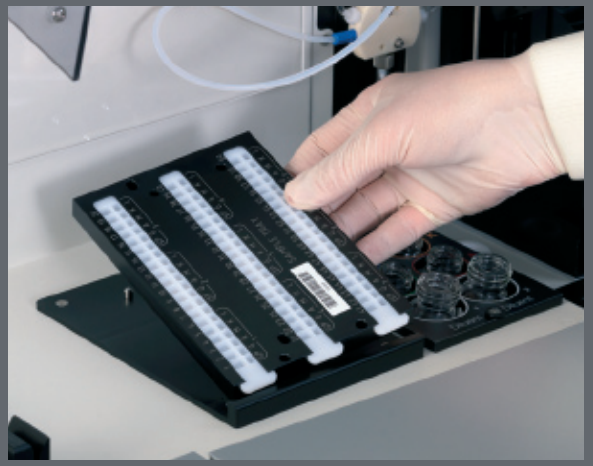
1 Automated retesting with the click of a mouse.

- Custom antisera profiles available
- Efficient capillary utilisation for high throughput analysis

2 Clear easy to interpret results.

- Customisable Immunodisplacement window takes the work out of interpretation
- Overlay multiple traces for detailed comparisons

3 Automatically reflex samples to the SAS gel tray.

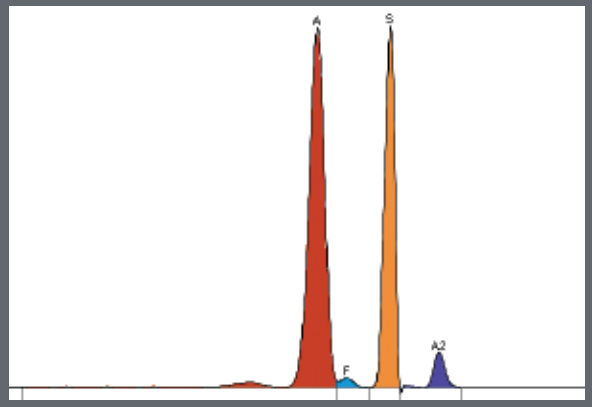


- Integrated gel preparation and “audit proof” traceability as standard
- Single database for Capillary and gel IFE results for complete sample history

Superior separation and resolution in haemoglobin analysis

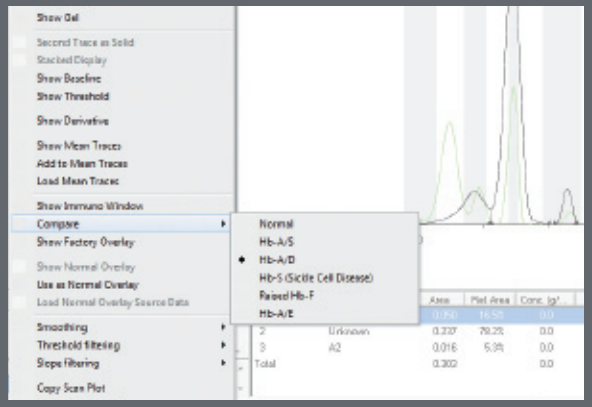
High-quality isoelectric focussing method combines excellent automated performance with superb separation and quantitation capabilities.

1 IEF assay for superior separation and resolution.



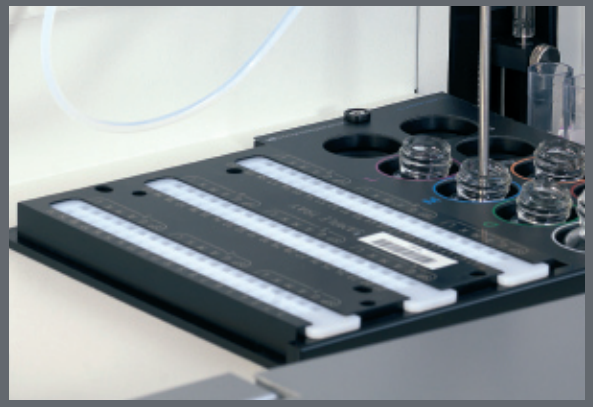
- High throughput haemoglobin screening
- Fully qualitive and quantitive analysis
- Analyse adult, neonate and homozygous abnormal samples within the same run, no need for system calibration

2 Interpret results using the extensive variant library.



- Clear, easy to interpret results display
- Compare run positions against known results for interpretive guidance

3 Automated confirmatory SAS Hb gel preparation.

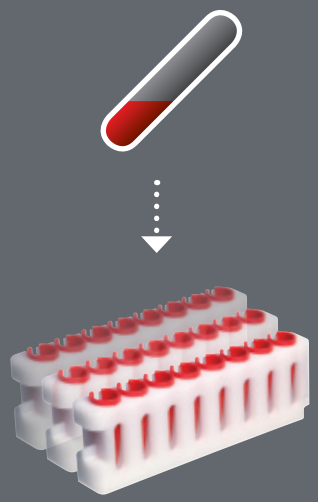


- Prepare gel trays for alkaline and acid haemoglobin gels
- Link results together in the same Platinum database
- Primary screen and confirmatory test on the same platform

Fully-automated CDT assay, from sample preparation to results reporting

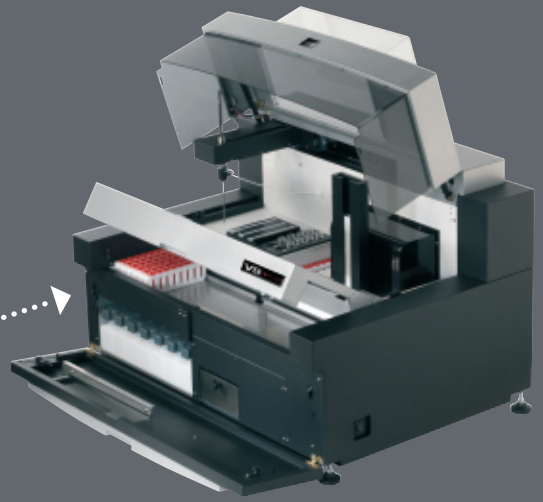
High-performance Carbohydrate Deficient Transferrin assay delivers full automation of rack and sample handling, ensuring simple sample processing.

1 Fully-automated: no sample pre-treatment is required.



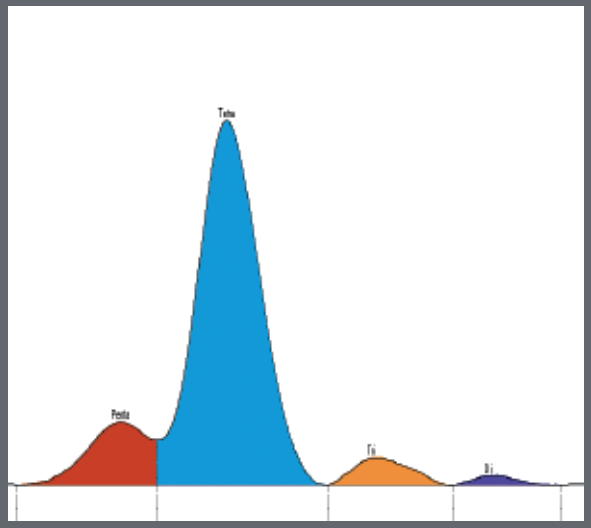
- Full Iron saturation handled automatically and on-board

2 Racks loaded at once and processed automatically.



- Automated convenience with no loss of resolution, reproducibility or accuracy

3 High-precision results with high reproducibility.



- Improved sample traceability as analytes can be loaded and analysed from primary tubes

V8 E-Class from Helena Biosciences is already transforming laboratories around the world. Find out below how we can improve your results, efficiency and performance.

The key feature of the V8 E-Class is the quality and dedication of our Sales, Service and Support teams who work closely with our local distribution partners to get the solutions to you quickly, efficiently and cost-effectively.

1 Helpful and efficient local sales operations.

We pride ourselves in working with customers and our local representatives to deliver the very best product to you:

- Rapid product ordering and delivery
- Dedicated team of Product Specialists enable customers to influence product design and development
- Competitive pricing

2 Service programme to keep your system running all year.

The V8 E-Class' efficiency and reliability will maximise laboratory up-time, and are further supported by our comprehensive service and maintenance programme:

- System backup and installation support
- Annual product health-check
- Access to regular product updates

3 Skilled support team to get you back to work rapidly.

When problems do occur, we have the best technical support to get your laboratory up and running again:

- Local service teams trained to Helena Biosciences standards
- On-call Helena Biosciences support specialists can make site visits
- Dedicated support via telephone

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