

Ordering information

Cat. no.	Description	Quantity
Clinical gel electrophoresis systems		
210105	SAS-1plus, SAS-2 and Platinum software with starter set	1
310105	SAS-3, SAS-4 and Platinum software with starter set	1
SAS-MX manual system		
4063	SAS-MX Gel chamber	1
EV243	Power supply	1
SAS-MX IEF manual system		
4065	SAS-MX IEF chamber	1
3039	Cooling block for IEF chamber	1
EV265	Power supply	1
SAS-M1 manual system		
211000	SAS-M1	1
EV243	Power supply	1

Assays and consumables

Please contact Helena Biosciences Europe directly, or your local distributor for full details and prices of our complete range of electrophoresis assays and consumables.

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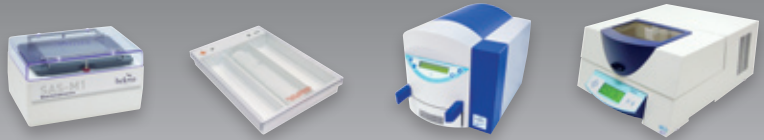
Clinical gel electrophoresis

The complete SAS product range



Fully integrated range of analysers and tests

As the original pioneers in clinical electrophoresis, we supply the most comprehensive portfolio of world-class instrumentation, software and assays, encompassing manual and automated diagnostic systems, and routine and specialist testing solutions, for flexibility and performance in your laboratory.



Product	SAS-M1	SAS-MX	SAS-1plus / 2	SAS-3 / 4
Serum Proteins	✓	✓	✓	✓
Serum Proteins (Split Beta)	✓	✓	✓	✓
Serum Proteins (High Res)	★	✓	✓	✓
Urine Protein Analysis	★	✓	✓	✓
Urine SDS	✓	—	✓	✓
Pentavalent Screening (urine/serum)	★	✓	✓	✓
Immunofixations	✓	✓	✓	✓
Urine Immunofixation	★	✓	✓	✓
Alkaline Phosphatase	★	✓	✓	✓
CK / LD Isoenzymes	★	✓	✓	✓
Lipoproteins	★	✓	✓	✓
HDL Cholesterol	★	✓	✓	✓
Cholesterol Profile	★	✓	✓	✓
IgG IEF	★	✓†	✓	✓
Transferrin Isoelectric Focusing	★	✓†	✓	✓
Alkaline Haemoglobin	★	✓	✓	✓
Acid Haemoglobin	★	✓	✓	✓
Haemoglobin IEF	★	✓†	✓	✓

★ indicates test under development † indicates requirement for IEF chamber

The SAS advantage: unique technologies and features as standard

SAS is an integrated range of instruments and assays that allows laboratories to build their ideal electrophoresis solution, from manual to automated systems.



Full multi-sample, historical audit trail from patient sampling to reporting



Run serum and urine samples including Pentavalent and Immunofixation simultaneously on the same gel



Quick, reliable and accurate market-leading patented sample applicator system



High voltage applications for increased resolution and multiple isoelectric focussing methods



Patented pre-cast, semi-dry gel block system – no electrode wicks or sponges



SAS-3 supports the widest range of gels, in two optimised sizes, for improved cost savings



On-board Peltier-controlled temperature regulation for improved resolution, reagent incubation and gel drying



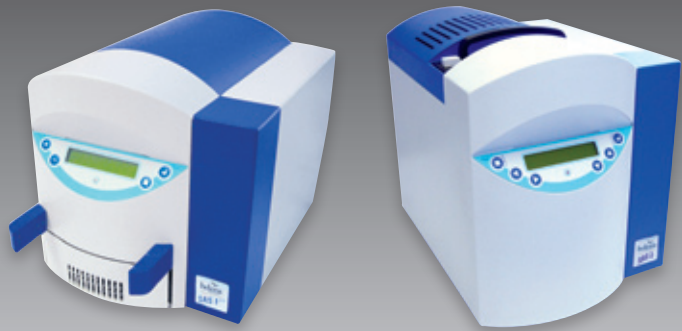
We provide the widest range of assays available, delivering assay compatibility between instruments

Welcome to the SAS product range – the complete clinical gel electrophoresis product range

SAS-1plus & SAS-2

Integrated electrophoresis solution for laboratories running 1200-6000 tests per year.

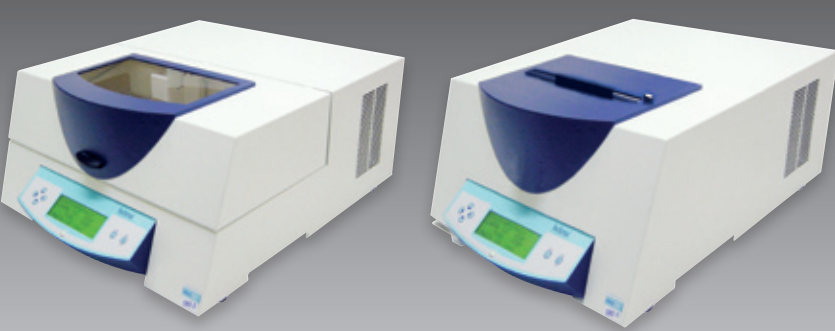
- Up to 72 Serum Proteins per hour
- Up to 8 Immunofixations per hour



SAS-3 & SAS-4

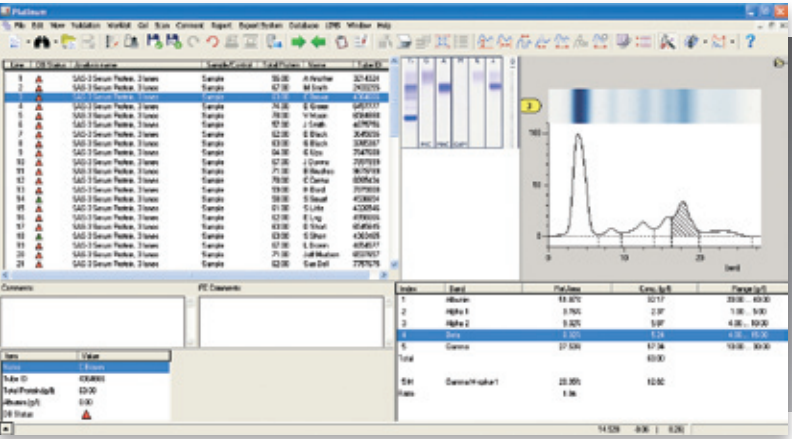
Integrated electrophoresis solution for labs running 4000-30000 tests per year.

- Up to 300 Serum Proteins per hour
- Up to 18 Immunofixations per hour



PLATINUM 4V

The world's most advanced clinical software package for gel and capillary electrophoresis; providing the biomedical scientist with the latest intelligent software apparatus for diagnostic reporting and monitoring.



SAS-1plus automated compact electrophoresis analyser

SAS-1plus is the ideal choice for laboratories conducting 40-100 Serum Proteins per week. Acclaimed by specialists all over the world, SAS-1plus supports an extensive range of clinical assays, providing users with a compact instrument that is fast, flexible, economical and ultra-reliable.

- Intuitive, multiple-language user interface
- Patented sample applicator technology ensures full protein application
- Up to 12/24 Serum Protein samples applied simultaneously; up to 2/4 samples for Immunofixation
- Precise antisera application for IFEs ensures reproducible lane coverage
- Continuous loading of different assays
- 20 editable gel programmes, with all SAS-1plus tests pre-programmed

SAS-2 automated compact gel processor system

Partnering the SAS-1plus, Helena Biosciences' SAS-2 gel processing system is the ideal solution for small-to-medium sized laboratories. Designed with reliability, accuracy and efficiency in mind, SAS-2 automates the staining, destaining and drying of the gel, and is optimised to give extraordinary clarity of protein gels.

- Compact bench-top analyser
- Walk-away automation reduces operator intervention
- Automated gel processing with variable staining, destaining and drying programmes
- Optimised gel range also compatible with SAS-MX and SAS-1 gels
- 20 editable gel programmes, with all SAS-1plus tests pre-programmed

SAS-3 automated compact electrophoresis analyser

SAS-3 has gained a reputation as a superior system for a wide range of assays, ideal for laboratories conducting 60-200 tests per week. All of this reliability and performance comes in a bench-top analyser which applies a precise sample volume directly to the gel using patented sample applicators ensuring no protein loss.

- Intuitive, multiple-language user interface
- Supports a wide range of gel sizes for flexible throughput requirements
- Up to 12/24/40/60/80/100 Serum Protein samples applied simultaneously; up to 2/4/9 samples for Immunofixation
- Automated reagent and antisera application for reagent-based assays
- Bar code reader for sample audit trail
- 20 editable gel programmes, with all SAS-3 tests pre-programmed

SAS-4 automated compact gel processor system

The SAS-4 gel processor is the partner to our high performance SAS-3 electrophoresis analyser. SAS-4 automates the staining, destaining and drying of electrophoresis gels, and is optimised to provide extraordinary clarity of protein gels. Pre-programmed and compatible with a wide range of gel sizes, it minimises operator time and intervention.

- Compact bench-top system with walk-away automation
- Prepared staining/destaining solution lasts for up to 1000 samples
- Automated gel processing with user-defined programming
- All liquids external – no level sensors
- Optimised for gel clarity
- Minimum service requirements
- 20 editable methods

Single screen navigation

- Completely intuitive, multilingual software, supporting step-by-step learning process
- Single-window navigation of gel or worklist, sample, trace, demographics, patient history, Immunotyping results and trace analysis
- Natural workflows from scan to reporting, with pre-prepared report templates supplied

Gel scan, storage and data integrity

- Full colour density scan of gels in one pass
- Twice faster sample scanning than competitors
- Gel image generated from raw data
- Extensive and efficient data storage, with automated data back-up

Patient demographics

- Fully definable and searchable demographics
- 'Plug and play', bidirectional LIMS connectivity
- Import patient data from LIMS including up to 12 chemistry values
- Fully customisable, self-checking database
- Full comparison of patient data

Complete auditing and validation

- Levey-Jennings capability with Westgard rules
- Full sample, reagent and user audit trail including individual access and history logs for analysis security
- LIMS authorisation and quality release system for authorised users

Sample analysis

- Full editing capabilities for baselines, peaks and true results
- Overlay facilities for sample analysis, comparisons and patient monitoring
- Enhanced image contrast functionality
- User-defined report publishing

Next-generation automation

Platinum 4V is the link between your SAS system and V8 – the next-generation in automated clinical capillary electrophoresis

SAS-M1
Compact manual electrophoresis

SAS-M1 makes manual assays easier and delivers advantages seen in more automated systems at a fraction of the cost.

Designed for simplicity, reliability and performance, SAS-M1 incorporates an integrated cooling block and innovations like our BufferBlock technology, with the buffers pre-loaded onto the gels.



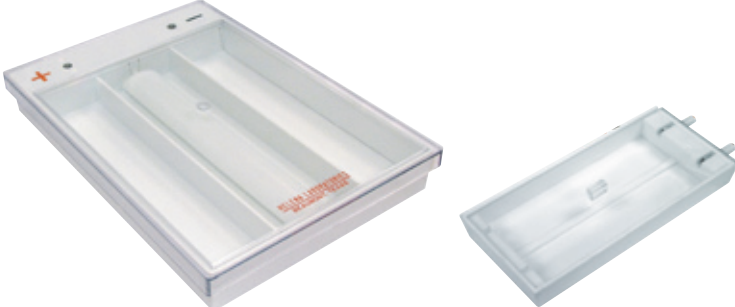
- Dry gel system with integrated gel buffers
- Uses the same kit for Serum Proteins or IFEs
- Compatible with SAS-1plus kits
- Plugs straight into most power supplies
- Integral electrodes supplied

- Integrated cooling by aluminium block
- Disposable applicator templates for 6 or 12 samples

SAS-MX
High performance with low prices

Established around the world for nearly 30 years, SAS-MX is simple and reliable technology matched by an exceptionally wide range of assays, delivering high performance, accuracy and reproducibility.

The standard chamber comes with a heat shield for use in high-resolution applications and is available with an optional IEF chamber for isoelectric focussing.



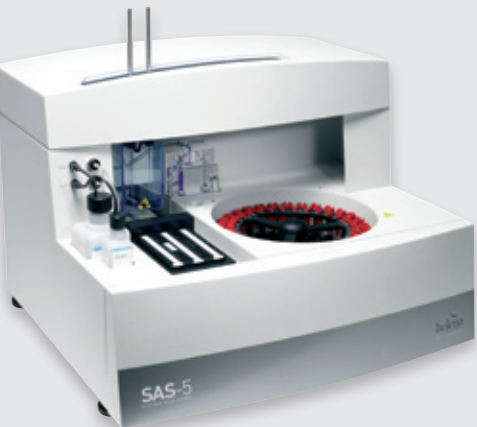
- Runs Titan III cellulose acetate or agarose gel
- For *in vitro* and research labs
- Plugs straight into most power supplies
- Reusable applicators for 8 or 12 samples
- Optimised gel range

- Unique interlock safety system breaks electrical circuit when chamber lid is removed
- Platinum electrodes and heat shield for agarose-based, high-resolution electrophoresis
- Additional IEF chamber for isoelectric focussing

SAS-5
Automated sample handler

SAS-5 is an automated sample-handling solution for the SAS-3 and SAS-4. From primary tube bar code reading to sample preparation and analysis, SAS-5 facilitates full walk-away convenience for improved throughput and efficiency in the laboratory.

Coupled with Platinum 4V it becomes a powerful solution that offers full analysis security and audit trail from patient sampling to result reporting.



- Sample pre-treatment
- Truidentity patient ID and audit trail
- LIMS compatibility
- Processes up to 180 samples per hour

- Dedicated sampling and dilution needles
- Automated support for all SAS tray sizes
- Full range of sample tube sizes supported
- Variable or serial sample dilution