Revolutionary gel integration

Bringing together Helena Biosciences’ expertise in Capillary and Gel electrophoresis in ONE integrated technology platform
Helena Biosciences is a leading medical diagnostic company with an international reputation comprising two flagship business divisions that specialise in the design, manufacture and support of Clinical Electrophoresis and Haemostasis systems.

Proudly manufacturing in Great Britain, with commercial and plant facilities based in the North East of England, Helena Biosciences has achieved its status as a market leader due to a commitment to quality and innovation, and the dedication to customers and partners through continual training and technical support.

For over three decades, the company has been a market leader in clinical electrophoresis technology, pioneering advances in the design of instrumentation, applications and software for acetate, agarose and since 2009 — fully automated Clinical Capillary Electrophoresis (CCE).

On the back of prolific business demand for this product and pioneering transformations in system automation—including FDA registration, Helena Bioscience’s new V8 E-Class CCE system, launched in December 2012, is a second generation analyser and the perfect partner to Helena’s superior agarose gel portfolio.

Helena Biosciences Europe: Overview

Sales, Marketing, Service and Technical Support

Clinical Electrophoresis
- Manual and semi-automated gel electrophoresis
- Automated capillary electrophoresis
- Extensive protein analysis portfolio
- Haemoglobin testing (HbA2; F, S, C, D, E etc.)
- CDT testing for clinical and forensic aims

Haemostasis Solutions
- Routine assays (e.g. PT, TT, aPTT, Fib)
- Specialist assays (e.g. Protein S, Protein C, D-Dimer)
- Platelet Function assays
- Integrated instrumentation
- Product distribution
- OEM agreements

Delivering Quality for the Modern Laboratory

Flagship Business Divisions:

Sales, Marketing, Service and Technical Support
**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.

### Gel Assay Catalogue Numbers

<table>
<thead>
<tr>
<th>Assay</th>
<th>SAS-1</th>
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<tr>
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**Ordering Information:**

* in combination with user specific choice of antisera
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 focusing.

- 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 focusing

SAS-MX

High performance with low prices

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-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-1plus & SAS-2

Welcome to the SAS product range – the complete

High performance with low prices

SAS-MX

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

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

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High performance with low prices

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Welcome to the SAS product range – the complete
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

SAS-MX IEF - Cat: 4065
Straightforward equipment and consistent results with over 30 years experience in clinical electrophoresis.

The IEF chamber allows for:
- Compact
- Agarose Gel Isoelectric Focusing only
- Reusable carbon electrodes
- Removable Chamber cooling device (Sold separately cat: 3039)
- Safety cut off lid
- Fits most lab power supplies
- Footprint: (W)13cm x (D) 31cm x (H) 5cm
- Weight: <1kg
- CE Marked
- Accessories Supplied:
  - Carbon Electrodes x 2
- Accessories Required:
  - Chamber cooling device - Cat: 3039
V8 offers fully-integrated gel tray preparation, enabling you to make the most of your existing investment and skills, and gives you the widest possible range of analytical options as a result. Fully incorporated into our Trueldentity™ audit trail functionality, V8’s unique gel integration is a must-see feature for clinicians and managers alike.

1. V8 prepares the gel tray and can handle up to 160 samples per hour.

2. The gels are processed on Helena Biosciences’ semi-automated gel electrophoresis systems.

3. The gel is scanned, edited and reported using Platinum 4V software.
**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.

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**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 as fast 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

**Platinum 4.1 Added Value**
- 2x accessible storage capacity of 4.0
- 160,000 gel results for retrieval and analysis
- Complete integration of Gel and CE results
- Colour trace display with dynamic peak labelling
- User configurable access levels and settings

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Brand New
Platinum 4.1 is here
The SAS Advantage: Unique Technologies and Gel Sizes

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

- **BufferBlock**
  Patented pre-cast, semi-dry gel block system—no electrode wicks or sponges

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

- **DualSize**
  SAS-3 supports the widest range of gels, in two optimised sizes, for improved cost savings
SampleSure
Quick, reliable and accurate market-leading patented sample applicator system

PowerUp
High voltage applications for increased resolution and multiple isoelectric focusing methods

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

Revolutionary gel integration, ideal for:
- Immunofixation
- Urine Protein Analysis
- Urine Immunofixation
- Pentavalent Screen

SAS-1 gel

SAS-3 gel
Serum Protein

Helena Biosciences has produced the serum protein 5 band gel using an advanced gel formulation ensuring enhanced resolution and sensitivity within the Gamma region.

- Up to 100 samples can be applied simultaneously
- Complete serum protein profile
- Clear and identifiable bands produced
- All assay components included within the kit

REF: 100100
10 tests/gel
10 gels/kit

REF: 200100
24 tests/gel
10 gels/kit

Compatibility:

REF: 300100
60 tests/gel
10 gels/kit

REF: 300105
80/100 tests/gel
10 gels/kit
Serum Protein (Split Beta)

Helena Biosciences has produced an additional serum protein 6 band gel for differentiation of β1 and β2 fractions. The Split Beta Gel uses an advanced gel formulation ensuring enhanced resolution and sensitivity within the Beta and Gamma regions.

- Up to 100 samples can be applied simultaneously
- Complete serum protein profile
- Resolution of β1 and β2 fractions to aid identification of β region migrating monoclonal proteins
- All assay components included within the kit

**SAS-MX gel**

- REF: 100200
- 10 tests/gel
- 10 gels/kit

**SAS-1 gel**

- REF: 200200
- 24 tests/gel
- 10 gels/kit

**SAS-3 gel**

- Compatibility:

**SAS-3** V8

**REF: 300200**
- 60 tests/gel
- 10 gels/kit

**REF: 300205**
- 80/100 tests/gel
- 10 gels/kit
Serum Proteins (High Resolution)

By using high-resolution agarose electrophoresis, 15 or more proteins can be visualised in the serum. This superior resolution and sensitivity separates and detects proteins with similar electrophoretic mobilities.

- Up to 20 samples can be applied simultaneously on SAS-3
- Suitable for urine and CSF analysis
- All assay components included within the kit

REF: 101300
7 tests/gel
10 gels/kit

REF: 300700
20 tests/gel
10 gels/kit

Compatibility:
SAS-3 V8

REF: 200700
12 tests/gel
10 gels/kit

Compatibility:
SAS-3 V8

SAS-MX gel

SAS-3 gel

SAS-1 gel
Urine Protein Analysis

The Urine Protein gel offers Helena Biosciences a unique and completely flexible approach to urine protein analysis and screening techniques. The applicator system ensures unconcentrated urine can be applied directly to the gel with the confidence of no protein loss.

- Standard urine screening
- Any combination of fixations for Bence Jones protein screening
- Direct urine sampling – no need to concentrate
- Clear and identifiable bands produced
- All assay components included within the kit

**SAS-MX gel**

**REF: 100500**
10 tests/gel
10 gels/kit

**SAS-1 gel**

**REF: 200400**
24 tests/gel
10 gels/kit

**SAS-3 gel**

**REF: 300400**
60 tests/gel
10 gels/kit

**Compatibility:**

- REF: 100500 Compatibility: SAS-3 V8
- REF: 200400 Compatibility: SAS-MX
- REF: 300400 Compatibility: SAS-MX
Immunofixation

Immunofixation Electrophoresis (IFE) is characterised by its enhanced sensitivity, ease of interpretation, quick test results and excellent resolution. The SAS-MX Immunofix kit allows profiling a patient sample in just over an hour with the use of colour coded antisera.

- Specific standardised sample preparation
- Up to 9 samples applied simultaneously on SAS-3
- Serum or urine protocols included
- Direct urine sampling – no need to concentrate
- Clear and identifiable bands produced
- All assay components included within the kit

**SAS-MX gel**

**SAS-1 gel**

**SAS-3 gel**

**Variety of SAS 1, 3 and SPIFE trays available**

| REF: 100300 | 1 test/gel | 10 gels/kit |
| REF: 100400 | 2 tests/gel | 10 gels/kit |
| REF: 200300 | 4 tests/gel | 10 gels/kit |

**Variety of SAS 1, 3 and SPIFE trays available**

REF: 300300

9 tests/gel

10 gels/kit

Compatibility:

SAS-3 V8
Urine Immunofixation Electrophoresis (IFE) is a rapid, sensitive and specific method for identifying proteins in urine, aiding in the diagnosis of proteinuria. Combining sensitivity and specificity the SAS-MX Urine IFE kit offers a rapid cost-effective method for urine IFEs.

- Direct urine sampling – no need to concentrate
- Clear and identifiable bands produced
- Discrimination of Bence Jones proteins
- All assay components included within the kit

**SAS-MX gel**

![Image of Urine Immunofixation Electrophoresis](image_url)

**REF: 100600**
1 test/gel
10 gels/kit

**Pentavalent Screen**

The unique Pentavalent screen products from Helena Biosciences allow direct screening of serum and/or urine samples for monoclonal proteins either in place of standard screening methods or as a pre-IFE confirmation.

- Pentavalent Fixation
- Direct urine sampling – no need to concentrate
- Clear and identifiable bands produced
- All assay components included within the kit

**SAS-1 gel**

![Image of Pentavalent Screen](image_url)

**REF: 200301**
12 tests/gel
10 gels/kit

**Compatibility:**

**SAS-3**

**REF: 300405**
60 tests/gel
10 gels/kit

**Compatibility:**

V8
Helena Biosciences has produced the Alkaline Haemoglobin gel using an advanced formulation ensuring enhanced resolution and sensitivity for initial haemoglobin screening.

- Up to 40 samples can be applied simultaneously on SAS-3
- Clear and identifiable bands produced
- All assay components included within the kit including Alkaline Buffer

**REF: 100800**
10 tests/gel
10 gels/kit

**REF: 200900**
12 tests/gel
10 gels/kit

 Compatibility:
SAS-3

**REF: 300900**
40 tests/gel
10 gels/kit
Acid Haemoglobin

Helena Biosciences has produced the Acid Haemoglobin gel using an advanced gel formulation ensuring enhanced resolution and sensitivity for the confirmation of abnormal haemoglobin samples.

- Up to 12 samples can be applied simultaneously
- Clear and identifiable bands produced

SAS-MX gel

REF: 100700
10 tests/gel
10 gels/kit

SAS-1 gel

REF: 201000
12 tests/gel
10 gels/kit

Compatibility:
SAS-3

Haemoglobin IEF

Numerous haemoglobin variants, many capable of producing severe Haemyotic Anaemia, have been identified. Electrophoresis is generally considered the best method for separating and identifying abnormal haemoglobins.

- Crisp, sharply resolved bands
- Complete processing in under 2 hours
- Higher specification and higher resolution than conventional electrophoresis

IEF gel

REF: 100900
10 tests/gel
10 gels/kit

V8 automated HB IEF method available
Isoenzymes

Alkaline Phosphatase

This high resolution agarose electrophoresis method for separation of Alkaline Phosphatase isoenzymes provides excellent discrimination with enhanced separation of bone and liver fractions. The gel formulation ensures separation of the macrohepatic fraction from bone and liver.

- Up to 20 samples per gel
- Single lane analysis for all Alkaline Phosphatase isoenzyme fractions
- Clear and identifiable bands produced
- All assay components included in kit including ALP separation enhancer

**SAS-MX gel**

REF: 102000
10 tests/gel
10 gels/kit

**SAS-1 gel**

REF: 200800
12 tests/gel
10 gels/kit

compatibility:
SAS-3

**SAS-3 gel**

REF: 300800
20 tests/gel
10 gels/kit
Definitive laboratory testing for documentation of Acute Myocardial Infarction (AMI) includes Creatine Kinase (CK) isoenzyme studies in conjunction with Lactate Dehydrogenase (LD) isoenzymes.

- Rapid separation of CK-MM, CK-MB and CK-BB
- Rapid separation of five LD isoenzymes
- Quantitation of CK-MB, LD1 and LD2; essential to documenting myocardial injury

**CK Isoenzymes**

**SAS-MX gel**

**SAS-1 gel**

**LD Isoenzymes**

**SAS-MX gel**

**SAS-1 gel**

Compatibility:

- **SAS-3**

**REF: 101800**
1 tests/gel
10 gels/kit

**REF: 201200**
2 tests/gel
10 gels/kit

**REF: 101900**
10 tests/gel
10 gels/kit

**REF: 201300**
12 tests/gel
10 gels/kit
Lipoproteins

Helena Biosciences’ Lipoprotein assay for the added assessment of Coronary Heart Disease has become integral to the in depth use of cardiac patient scoring systems. The Lipoprotein electrophoresis assay is an excellent method for the phenotyping of lipoproteins giving additional patient information.

- Up to 12 samples can be applied simultaneously
- Easy and accurate quantification
- Clear and identifiable bands produced
- All assay components included within the kit

REF: 101200
10 tests/gel
10 gels/kit

REF: 201100
12 tests/gel
10 gels/kit

Compatibility:
SAS-3

Cholesterol

Designed for the assessment of cholesterol content of the major lipoprotein fractions. The excellent separations of the various cholesterol constituents are easily conducted without the need for additional separation techniques. The cholesterol profile assay separates into HDL, vLDL, LDL and Lp(a).

- Up to 60 samples can be applied simultaneously
- Cholesterol specific staining system
- Easy and accurate quantification
- Clear and identifiable bands produced
- All assay components included within the kit

REF: 200600
12 tests/gel
10 gels/kit

Compatibility:
SAS-3

REF: 300600
60 tests/gel
10 gels/kit

Compatibility:
SAS-3
HDL Cholesterol

The HDL Cholesterol Kit complements the Lipoprotein Kit for assessment of the cholesterol content of Alpha, Beta and pre-Beta components, recognised as HDL, vLDL and LDL.

- Up to 60 samples can be applied simultaneously
- Cholesterol specific staining system
- Easy and accurate quantification
- Clear and identifiable bands produced
- All assay components included within the kit

REF: 101000
10 tests/gel
10 gels/kit

REF: 200500
12 tests/gel
10 gels/kit

Compatibility: SAS-3

REF: 300500
60 tests/gel
10 gels/kit
Transferrin IEF

Isoelectric Focusing coupled with immunoblotting discriminates between the various isoforms of Transferrin. The method can be used for no gap qualitative analysis of serum samples to determine dysfunction in glycosilation of serum proteins found in genetic disorders/alcohol abuse.

- Up to 10 samples run per gel
- All major Transferrin isoforms clearly identified
- Applications for CSF, Transferrin Glycosilation and Tau protein
- No non-specific staining of other proteins
- All assay components within the kit
- Allows identification of Tau protein in nasal and ear fluids in the case of trauma.

REF: 103100
10 tests/gel
10 gels/kit

Alpha-1-Antitrypsin

The Alpha-1-Antitrypsin (α1-AT) IEF gel kit is intended for the identification of genetic variants in human serum by a combination of iso-electric focusing and immunofixation. The Alpha-1-Antitrypsin variants are separated according to iso-electric point in an agarose IEF gel.

- 12 samples per gel
- Clear and identifiable bands produced
- All assay components included in the kit

REF: 105100
12 tests/gel
10 gels/kit
IgG IEF

The Helena Biosciences’ IgG Isoelectric focusing kits are intended for the identification of IgG-specific oligoclonal banding in the diagnosis of Multiple Sclerosis. Paired serum and unconcentrated CSF samples are compared using Isoelectric Focusing coupled with immunoblotting.

- Up to 10 paired serum CSF samples per gel
- No pre-concentration of samples required
- IgG IEF control material available
- All assay components included within the kit
- Kappa & Lambda protocols available for easier interpretation of difficult samples
- The Helena Biosciences’ method is acknowledged as the gold standard for this diagnosis.

REF: 102200
5 tests/gel
10 gels/kit

REF: 104200
10 tests/gel
10 gels/kit

Prof E J Thompson PhD MD DSc FRCPath FRCP

‘Having dealt with Helena for 20 years now, I am obviously convinced of their excellence. The analysis of spinal fluid has been a Cinderella area due to a combination of smaller numbers of samples yet higher levels of sophistication required to detect oligoclonal IgG patterns. Helena have maintained the highest levels of quality control. This culminated in the recognition by the US Food and Drugs Administration of their kit for spinal fluid analysis. Thus the technique was further adopted by an International group of experts on the laboratory diagnosis of Multiple Sclerosis. It remains the “gold standard” in this field.’

Dept of Neuroimmunology
Inst of Neurology
The National Hospital for Neurology & Neurosurgery
### Ordering Information

#### Serum Protein

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>100100</td>
<td>SAS-MX SP-10 kit</td>
<td>200200</td>
<td>SAS-1 SP-24 SB kit</td>
</tr>
<tr>
<td>200100</td>
<td>SAS-1 SP-24 kit</td>
<td>300200</td>
<td>SAS-3 SP-60 SB kit</td>
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<tr>
<td>300100</td>
<td>SAS-3 SP-60 kit</td>
<td>300205</td>
<td>SAS-3 SP-80/100 SB kit</td>
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#### Serum Protein (Split Beta)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
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<tr>
<td>100200</td>
<td>SAS-MX SP-10 SB kit</td>
<td>200200</td>
<td>SAS-1 SP-24 SB kit</td>
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<tr>
<td>200200</td>
<td>SAS-1 SP-24 SB kit</td>
<td>300200</td>
<td>SAS-3 SP-60 SB kit</td>
</tr>
<tr>
<td>300205</td>
<td>SAS-3 SP-80/100 SB kit</td>
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#### Serum Protein (Hi-Resolution)

<table>
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<tbody>
<tr>
<td>101300</td>
<td>SAS-MX High Res-7 kit</td>
<td>200700</td>
<td>SAS-1 SP-12 High res-12 kit</td>
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<tr>
<td>300700</td>
<td>SAS-3 SP-20 High res kit</td>
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#### Serum Protein Controls

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>7024</td>
<td>Kemtrol Normal Serum Control</td>
<td>7025</td>
<td>Kemtrol Abnormal Serum Control</td>
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#### Immunofixation

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>100300</td>
<td>SAS-MX IFE-1 kit</td>
<td>100400</td>
<td>SAS-MX IFE Plus kit (additionally antisera is required cat num.3151)</td>
</tr>
<tr>
<td>200300</td>
<td>SAS-1 IFE-4 kit, (require urine total for urine) with antisera (TF,G,A,M,K,L) Optional IFE gel / Antisera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200301</td>
<td>SAS-1 IFE-4 gel kit - Gel Kit Only</td>
<td></td>
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</tr>
<tr>
<td>300300</td>
<td>SAS-3 IFE-9 kit, (require urine total for urine) with antisera (TF,G,A,M,K,L) Optional IFE-9/4 Gels / Antisera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300301</td>
<td>SAS-3 IFE-9 gel kit, (includes urine fix options) Gel Kit Only</td>
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#### Urine Protein

<table>
<thead>
<tr>
<th>Code</th>
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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>100500</td>
<td>SAS-MX Urine-10</td>
<td>200400</td>
<td>SAS-1 Urine Analysis kit</td>
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<tr>
<td>300400</td>
<td>SAS-3 Urine Analysis kit</td>
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#### Urine Immunofixation

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<tbody>
<tr>
<td>100600</td>
<td>SAS-MX Urine IFE-1</td>
<td>100601</td>
<td>Gel Kit Only</td>
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#### Pentavalent Screen

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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>200301</td>
<td>SAS-1 IFE-4 gel kit</td>
<td>300405</td>
<td>SAS-3 Pentavalent Screen (Gel &amp; Accessory kit)</td>
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<tr>
<td>200406</td>
<td>Pentavalent Accessory kit</td>
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<tr>
<td>321200</td>
<td>SAS Pentavalent (1x3ml), (IgG,A,M, K, L)</td>
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#### Individual Antisera

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9409</td>
<td>IFE antisera to IgD (1ml)</td>
<td>9412</td>
<td>IFE antisera to Free Kappa Light Chains</td>
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<tr>
<td>9410</td>
<td>IFE antisera to IgE (1ml)</td>
<td>9413</td>
<td>IFE antisera to Free Kappa Light Chains</td>
</tr>
<tr>
<td>3151</td>
<td>IFE antisera kit (6x3ml), (TF, G, A, M, K, L) (100400 use only)</td>
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<tr>
<td>9400</td>
<td>ImmunoFix Control Kit (3x0.5 mL), (K, L, M)</td>
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#### Haemoglobins

**Alkaline**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>100800</td>
<td>SAS-MX Alk Hb-10 kit</td>
<td>100900</td>
<td>SAS-MX Hb-IEF-10 kit</td>
</tr>
<tr>
<td>200900</td>
<td>SAS-1 Alk Hb-12 kit</td>
<td>300900</td>
<td>SAS-3 Alk Hb-40 kit</td>
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<tr>
<td>221000</td>
<td>SAS Urine Total antiserum (2ml)</td>
<td></td>
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<tr>
<td>222000</td>
<td>SAS Urine Micro antiserum (2ml)</td>
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<tr>
<td>223000</td>
<td>SAS Urine Macro antiserum (2ml)</td>
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<tr>
<td>224000</td>
<td>SAS GAM antiserum (2ml)</td>
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</tr>
<tr>
<td>225050</td>
<td>SAS Free Kappa antiserum (2ml)</td>
<td></td>
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<tr>
<td>226060</td>
<td>SAS Free Lambda antiserum (2ml)</td>
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<tr>
<td>227000</td>
<td>SAS Kappa antiserum (2ml)</td>
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</tr>
<tr>
<td>228000</td>
<td>SAS Lambda antiserum (2ml)</td>
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</tr>
<tr>
<td>229000</td>
<td>SAS Urine Pent/Alb antiserum (2ml), (IgG,A,M, K, L)</td>
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<tr>
<td>231000</td>
<td>SAS Urine Pent/Alb antiserum (5ml), (IgG,A,M, K, L)</td>
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<tr>
<td>231100</td>
<td>SAS Serum fixative (2ml), (optional)</td>
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<tr>
<td>231200</td>
<td>SAS Serum fixative (optional)</td>
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<tr>
<td>231300</td>
<td>SAS Serum fixative 2</td>
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**Acid**

<table>
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<tr>
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<tbody>
<tr>
<td>100700</td>
<td>SAS-MX Acid Hb-10 kit</td>
<td>5328</td>
<td>AA2 Hemo Control</td>
</tr>
<tr>
<td>201000</td>
<td>SAS-1 Acid Hb-12 kit Use on SAS-3 requires 310907</td>
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<tr>
<td>5329</td>
<td>ASA2 Hemo Control</td>
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<tr>
<td>5330</td>
<td>AFSA2 Hemo Control</td>
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<tr>
<td>5331</td>
<td>AFSC Hemo Control</td>
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### Isoenzymes

<table>
<thead>
<tr>
<th>Enzyme</th>
<th>SAS-MX Kit/No.</th>
<th>SAS-1 Kit/No.</th>
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<tbody>
<tr>
<td>Alkaline Phosphatase</td>
<td>102000 SAS-MX</td>
<td>200800 SAS-1</td>
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<tr>
<td></td>
<td>300800 SAS-3</td>
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<tr>
<td>Creatine Kinase</td>
<td>101800 SAS-MX</td>
<td>201200 SAS-1</td>
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<td></td>
<td>301800 SAS-3</td>
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<tr>
<td>Lactate Dehydrogenase</td>
<td>101900 SAS-MX</td>
<td>201300 SAS-1</td>
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### Lipoproteins / Cholesterol

<table>
<thead>
<tr>
<th>Component</th>
<th>SAS-MX Kit/No.</th>
<th>SAS-1 Kit/No.</th>
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</thead>
<tbody>
<tr>
<td>Lipoproteins</td>
<td>101200 SAS-MX</td>
<td>201100 SAS-1</td>
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<tr>
<td></td>
<td>101000 SAS-MX</td>
<td>200500 SAS-1</td>
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<td>300500 SAS-3</td>
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<tr>
<td>HDL</td>
<td>101000 SAS-MX</td>
<td>200500 SAS-1</td>
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<td>300500 SAS-3</td>
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</table>

### Isoelectric Focusing

<table>
<thead>
<tr>
<th>Component</th>
<th>SAS-MX Kit/No.</th>
<th>SAS-1 Kit/No.</th>
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</thead>
<tbody>
<tr>
<td>IgG-IEF</td>
<td>102200 SAS-MX</td>
<td>102201 SAS-MX</td>
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<td></td>
<td>104200 SAS-MX</td>
<td>104201 SAS-MX</td>
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<tr>
<td>Transferrin</td>
<td>103100 SAS-MX</td>
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</tr>
<tr>
<td>Alpha-1 Antitrypsin</td>
<td>105101 IEF</td>
<td></td>
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<tr>
<td>Optional Antisera</td>
<td>102206 SAS-MX</td>
<td>102207 SAS-MX</td>
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<td>102208 SAS-MX</td>
<td>102209 SAS-MX</td>
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<tr>
<td>Control</td>
<td>102210 IEF</td>
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### Instrumentation

<table>
<thead>
<tr>
<th>Component</th>
<th>SAS-MX Kit/No.</th>
<th>SAS-1 Kit/No.</th>
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<tbody>
<tr>
<td>SAS-MX</td>
<td>4063 SAS-MX</td>
<td>4063 SAS-MX</td>
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<tr>
<td></td>
<td>EV245 Power supply</td>
<td>EV245 Power supply</td>
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<tr>
<td>SAS-MX IEF</td>
<td>4065 SAS-MX IEF chamber</td>
<td>3039 Cooling block for IEF chamber</td>
</tr>
<tr>
<td></td>
<td>EV265 Power supply</td>
<td>600 V</td>
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<tr>
<td>SAS-1+ / 2</td>
<td>1531 SAS-1+</td>
<td>1212 SAS-2</td>
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<td>1527 SAS-3</td>
<td>1529 SAS-4</td>
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<tr>
<td>SAS-3/4</td>
<td>1527 SAS-3</td>
<td>1529 SAS-4</td>
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<tr>
<td>SAS-1+ Specific Consumables</td>
<td>201200 SAS-1</td>
<td>201300 SAS-1</td>
</tr>
<tr>
<td>General SAS-1+ / 3 Consumables</td>
<td>210100 Disposable sample cups x 100</td>
<td>310 REP PREP (for ~ 600 gels)</td>
</tr>
<tr>
<td>Required for IEF gels on SAS-3</td>
<td>311200 SAS-3 Electrode adapters for IEF</td>
<td>311700 SAS-1 gel alignment guide for SAS-3</td>
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