



The MR.SPOT® Platform

Flexible solutions for different applications in transfusion and transplantation

MR.SPOT® – The Concept

Automation

We can offer a complete automated solution from blood sample to result. Let us know your requirements and we will provide you with the most reasonable solution according to your needs.

Do you want sample tracking and full control of the process? MR.SPOT® 2.0 offers barcode-reading of all components, liquid measurement and an integrated cyclor.

DNA extraction and PCR set up can be included by commercially available systems. Increase the safety of the process and track your samples from the beginning to the results!

One Platform, many different Applications

The platform can be used for many different tests. We offer the full panel of:

- **Genetic HLA-typing kits** (A, B, C, DR, DQ, DP)
- **Genetic blood group typing kits**
(RHD, KEL, JK, FY, MNS, LU, DO, CO, DI, VEL and more)
- **HLA-antibody testing** based on recombinant proteins
(HLA class I and class II)

Flexible

The platform is made to fit your needs, depending on your daily turnover.

One run comprises between 1 and 96 tests and you have the option to start 3 runs per day with any combination of genetic HLA and blood group typing tests.

You choose which tests you want to perform today. Whatever it is, it will fit.



Simplified Workflow

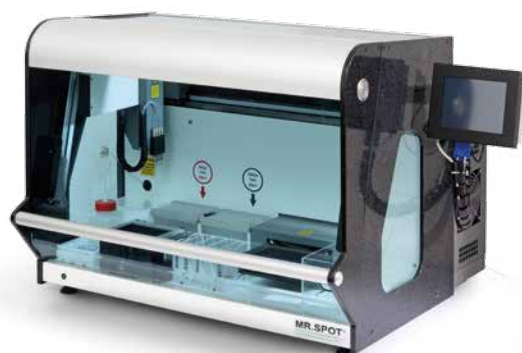
**Our system guides you through the complete workflow.
All components of the platform are optimized to support you:**

- The MR.SPOT® with its control panel
- The software by its clear structure
- The reagents with a ready-to-use configuration

Taken all together, the system is easy to use without extensive training.

MR.SPOT® and MR.SPOT® 2.0

Make your life easier



New
MR.SPOT®
2.0

Features	MR.SPOT®	MR.SPOT® 2.0
User friendly handling	x	x
Applications	ERY SPOT® SSO, HISTO SPOT® SSO, HISTO SPOT® AB	ERY SPOT® SSO, HISTO SPOT® SSO, HISTO SPOT® AB
Flexibility: 1-96 Tests per run	x	x
Automation from amplicon to result	x	x
Sample tracking	–	x
Temperature control of the reaction plate during the complete assay	–	x
Control of the correct buffer volumes	–	x
Integrated Cycler (optional)	–	x



Individual Solutions

Complete automation and full control from sample to result

What we can establish for you in cooperation with specialised partners:

Pre-PCR



Automated DNA extraction system



Liquid handling system



Thermal Cycler



MR.SPOT® Processor



HISTO MATCH Software

What BAG Health Care can offer to you directly:

Post-PCR

Barcoded DNA samples are isolated from barcoded blood samples

Barcoded DNA samples are pipetted in a bar-coded PCR plate in a controlled PCR Setup

The barcoded PCR plate is amplified using a thermal cycler (external or MR.SPOT® integrated)

The amplified samples undergo a hybridization assay

Analysis of the results

Full traceability from beginning to end

MR.SPOT® – The Applications

Blood Group and Platelet Typing

Simple and safe molecular typing of blood group antigens with the ERY SPOT® SSO kits

- Typing of common and rare blood groups
- RH weak D typing
- Typing of the relevant HPA alleles
- Convenient and reliable

HLA Typing

HISTO SPOT® SSO is the most convenient HLA typing system on the market

- Flexible medium to high throughput typing
- Medium to high resolution
- Dedicated solution for on call typing
- Typing of disease associations

HLA Antibody Analysis

Automated HLA antibody detection and identification with the HISTO SPOT® HLA AB kits

- Based on a broad panel of recombinant single antigens
- Miniaturized assay with minimal sample volumes (5-20µl serum)
- Option to combine screening and identification in a single test

Results from all applications on the MR.SPOT® platform can be analysed in one database in the HISTO MATCH Software.





HISTO MATCH Software

Convenient interpretation and data management for all applications

- Interpretation modules for all applications on the MR.SPOT® platform and for our HLA and blood group SSP kits (HISTO TYPE SSP, BAGene SSP)
- Data management for all results in one SQL server database
- Results are given in the latest ISBT or IMGT nomenclature
- Efficient workflow management and tracking of samples and results
- Intuitive interpretation tools for reviewing and editing results
- Customized typing reports
- Network installations including the MR.SPOT® processor and several workplaces based on Microsoft SQL Server
- Integration in LIM systems with customized interfaces, including Helmborg SCORE software
- HISTO MATCH is available in different languages (e.g. English, French, Italian, Spanish, German, Russian)

We are the Experts for HLA and Blood Group Diagnostics

With **more than 30 years of experience** BAG Health Care is the specialist for HLA and blood group diagnostics. As an independent, global operating company we offer **permanent ongoing development** of our products and services.

Our motivation is to **exceed the expectations of our customers** and partners. Hence, we support them with **extraordinary service** and **new ways of thinking – capable, fast and spot-on.**