

WE LIVE  
TO EXCITE



PROVEN  
AND ROBUST

CLASSIC SSP METHOD FOR  
HLA AND KIR TYPING

HISTO TYPE SSP

**BAGO**   
DIAGNOSTICS

## SCOPE OF APPLICATION

### RELIABLE SSP TYPING WITH VALIDATED HAPPY TAQ POLYMERASE

- Well established HLA typing method
- For smaller numbers of samples and confirmatory tests
- For HLA class I and class II genes / KIR genes
- Specific tests for disease associations and pharmacogenomics available

## YOUR ADVANTAGES

**Easy**

**One simple protocol for all loci and easy interpretation with HISTO MATCH software**

**Robust**

**Tolerance to variations in DNA concentration**

**Safe**

**Validated Taq Polymerase included**



## SSP TYPING KITS FOR SPECIAL APPLICATIONS

**BAG offers streamlined SSP solutions for special clinical applications associated with HLA alleles. Customised kits for other applications are available on request.**

### COELIAC DISEASE

- Coeliac disease is an autoimmune reaction triggered by gluten which might lead to chronic inflammation and destruction of the small intestine if not diagnosed early
- Coeliac disease is strongly associated with the DQA1\*05:01-DQB1\*02:01 and DQA1\*03-DQB1\*03:02 haplotype
- Additionally, DRB1\*03, DRB1\*07 and DRB1\*11 alleles can be used as genetic markers

### MORBUS BECHTEREW ET AL.

- Seronegative arthritic diseases like Morbus Bechterew, Morbus Reiter and post infectious reactive arthritis are strongly associated with HLA B\*27
- Determination of the presence of HLA B\*27 is a valuable tool in the diagnosis of these diseases

### NARCOLEPSY

- Narcolepsy is a sleep disorder with symptoms like excessive daytime somnolence, sleep paralysis or hallucinations
- 98 % of the Caucasian narcolepsy patients carry the DRB1\*15:01-DQA1\*01:02-DQB1\*06:02 haplotype

### ABACAVIR

- Some patients develop a hypersensitivity reaction against the antiretroviral drug abacavir which is used e.g. for HIV therapy
- This hypersensitivity is associated with the allele HLA B\*57:01

## HISTO MATCH SOFTWARE DESIGNED FOR YOUR NEEDS

- Convenient management of all relevant data regarding patients, samples, worklists, kits and users in a Microsoft SQL Server database
- Efficient workflow management and tracking of samples and results
- Intuitive interpretation tools for reviewing and editing results
- Customised typing reports
- HISTO TYPE SSP and HISTO SPOT SSO results can be combined

HISTO MATCH  
is available in  
different  
languages



## KIR TYPE FOR DETERMINATION OF KIR GENOTYPES

**KIR typing is used as complimentary diagnostic before bone marrow transplantations and for immunogenetic studies**

- HLA/KIR disparity influences the success of transplantations
- There are associations of KIR genotypes with autoimmune diseases such as psoriasis and a slower progression of the AIDS disease
- The KIR TYPE kit enables genotyping of 14 KIR genes and 2 pseudogenes

## COST EFFECTIVE CHECKS FOR OPTIMAL CONDITIONS

Tailor-made  
accessoires for  
reliable results

**CYCLER CHECK and Wipe Test are tools adjusted to the BAG SSP kits to ensure a good quality of your results**

### **CYCLER CHECK**

- Ensures optimal conditions for your tests
- Test of the complete 96 well thermoblock for critical deviations of the denaturing temperature and the annealing temperature
- Reliable and cost effective check of the temperature precision and uniformity of your thermocycler tailored to the parameters of the BAG SSP kits
- Regular check ups and calibrations of your thermocyclers are mandatory according to EFI and ASHI guidelines

### **WIPE TEST**

- Use of the wipe test avoids false positive reactions and, therefore, ensures the quality of your results
- Reliable and fast method to check for contaminations with amplicons of HLA class I and class II genes as well as with genomic DNA in the laboratory
- Regular wipe tests are mandatory according to EFI and ASHI guidelines



## WORKFLOW

1

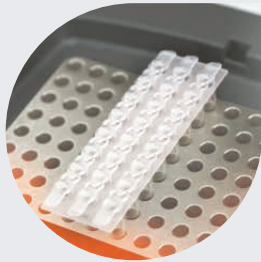
Prepare and distribute DNA / buffer mix on the PCR plate.



Pre PCR

2

Run PCR on thermal cycler.



Thermal Cycler

3

Run electrophoresis on agarose gel and image results.



Post PCR

4

Interpret results using HISTO MATCH.



HISTO MATCH

## YOUR BENEFITS

**Easy to analyze**

**Automated interpretation**

**Feel confident with the results**

**User-friendly interpretation software**

**Be safe**

**Compelling implementation and support**

| PRODUCTS                                      | DESCRIPTION  | PACKAGE  | REF   |
|---|--|----------|-------|
| HISTO TYPE SSP for HLA Genotyping             |  |          |       |
| HISTO TYPE A low                              | HISTO TYPE SSP kits incl. Happy Taq and Contamination control              | 20 tests | 70721 |
| HISTO TYPE B low                              |  | 20 tests | 70731 |
| HISTO TYPE C low                              |  | 20 tests | 70741 |
| HISTO TYPE DQB low                            |  | 20 tests | 70891 |
| HISTO TYPE DR low                             |  | 20 tests | 70751 |
| HISTO TYPE ABC                                |  | 20 tests | 7102  |
| HISTO TYPE ABDR                               |  | 20 tests | 7098  |
| HISTO TYPE DR/DQB                             |  | 20 tests | 7103  |
| HISTO TYPE SSP for disease association typing |  |          |       |
| HISTO TYPE B*57:01 / B*51                     | HISTO TYPE SSP kits incl. Happy Taq and Contamination control              | 20 tests | 70715 |
| HISTO TYPE B27 low                            |  | 48 tests | 7070  |
| HISTO TYPE B27 low                            |  | 96 tests | 7071  |
| HISTO TYPE Coeliac Disease                    |  | 20 tests | 70941 |
| HISTO TYPE Narcolepsy                         |  | 20 tests | 70716 |
| SSP test kits for KIR typing                  |  |          |       |
| KIR TYPE                                      | 20 PCR mixes   | 10 tests | 7105  |
| Accessories                                   |  |          |       |
| CYCLER CHECK                                  | Kit for verifying the temperature accuracy and uniformity of thermocyclers | 10 tests | 71044 |
| CYCLER CHECK                                  | Kit for verifying the temperature accuracy and uniformity of thermocyclers | 4 tests  | 7104  |
| EXTRA GENE I                                  | DNA extraction with the salting out method                                 | 50 extr. | 7059  |
| Wipe test                                     | Contamination control  | 40 tests | 7091  |

# WE LIVE TO EXCITE

**EXCELLENCE, PARTNERSHIP** and **PASSION** have always been the basis of our actions. Moreover, since 1947 our wish to inspire you by understanding your needs has been absolutely central – and therefore, we only develop diagnostics with added value and significance. We combine decades of experience and a deeply rooted exploratory urge for the development of our innovative products.

Thanks to our independence and global orientation, we can conduct targeted research for the development of top performance products and services in the areas of **TRANSPLANTATION, TRANSFUSION, HUMAN GENETICS** and **INFECTIOUS DISEASES.**

Our motivation is to exceed the expectations of our customers and partners. That is why we support you with exceptional service and new ways of thinking – competently, quickly and precisely.

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DIAGNOSTICS