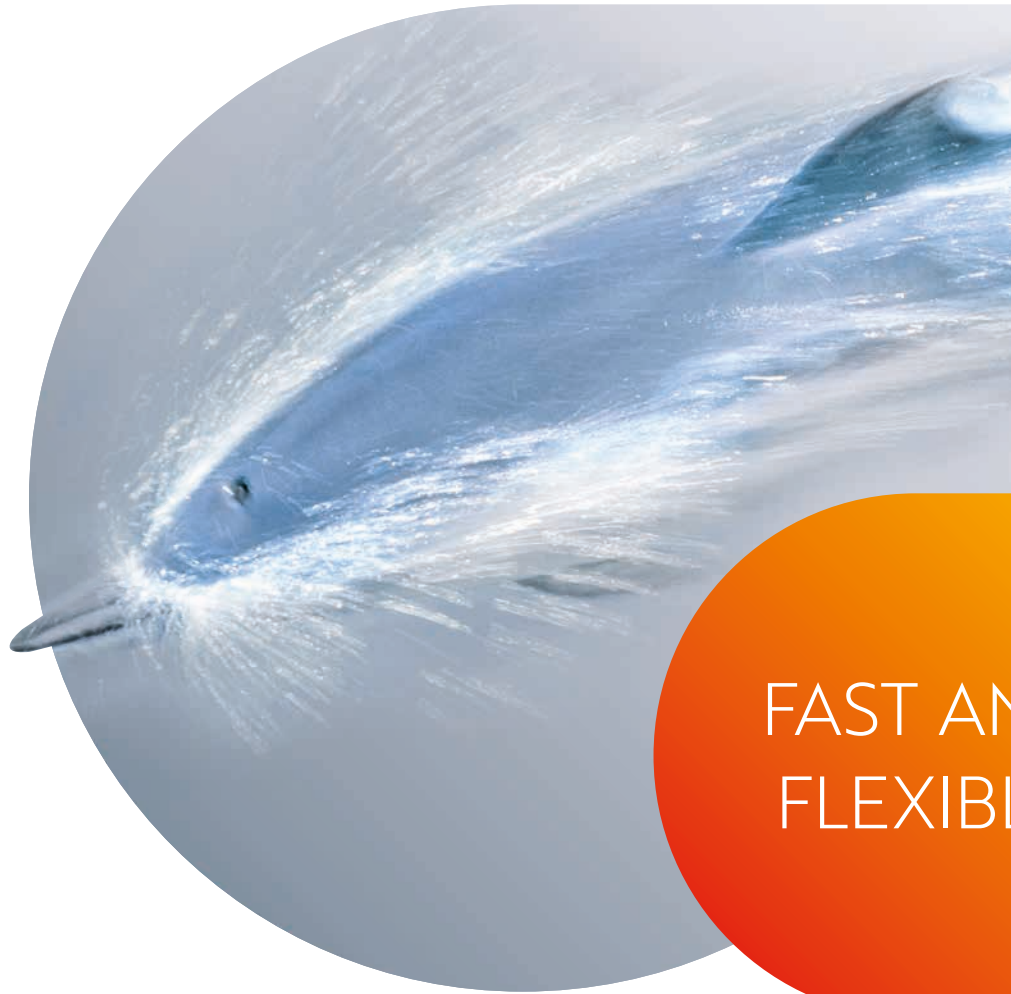


# WE LIVE TO EXCITE



FAST AND  
FLEXIBLE

DISCOVER OUR SMART REAL-TIME  
PCR ASSAYS

FastQ<sup>®</sup> DISEASE ASSOCIATION  
TYPING

**BAGO**  
DIAGNOSTICS

## SCOPE OF APPLICATION

### HUMAN GENETICS FOR DISEASE ASSOCIATION

- FastQ® B\*27 – Ankylosing spondylitis (M. Bechterew) et al.
- FastQ® B\*27 direct - for B\*27 testing direct from blood
- FastQ® CD – Coeliac disease

## YOUR ADVANTAGES

**Be flexible**

**The liquid format is compatible with various thermal cyclers**

**Save time**

**Keep hands on time to a minimum and get results in less than 80 min.**

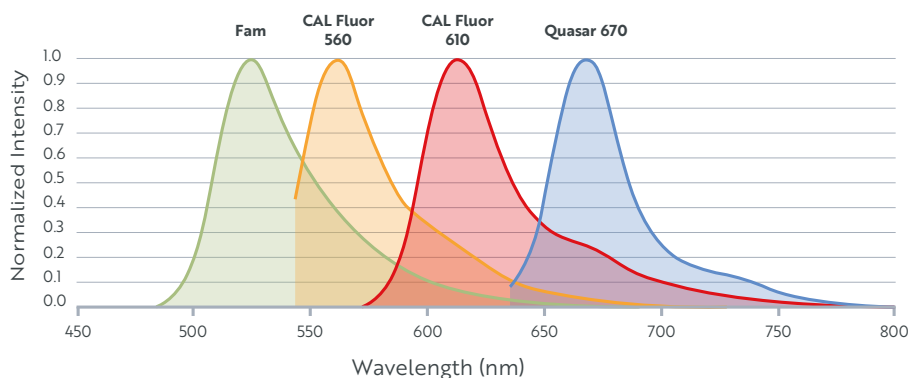
**Be efficient**

**Use the diluted blood immediately with our FastQ® direct kit**



## UP TO FOUR COLOUR MULTIPLEXING

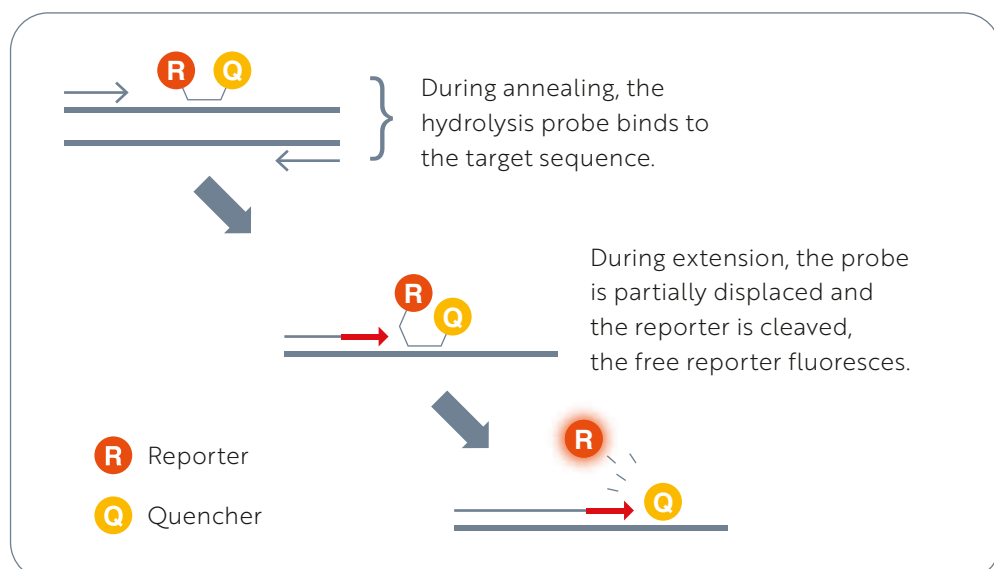
Colours with separated emission spectra were selected:



### DUE TO HIGHLY MULTIPLEXED MIXES AND USE OF UP TO 4 COLOURS:

- Save space on the plate – more samples in one run (higher throughput)
- Most common real-time cyclers fit

## HIGH SPECIFICITY WITH TaqMan<sup>®</sup> PROBES



The specificity of the reaction is defined by the primer and probe sequences. This increases resolution and reduces false positive reactions.

In a positive reaction the fluorescence increases with each cycle.

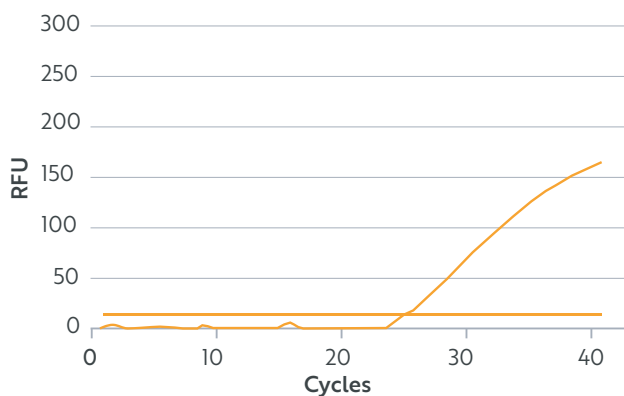
# FastQ<sup>®</sup> B\*27 & FastQ<sup>®</sup> B\*27 direct – ANKYLOSING SPONDYLITIS (M. BECHTEREW) ET AL.

## PRODUCT FEATURES

**Detects the HLA-B\*27 allele group associated with ankylosing spondylitis (M. Bechterew, M. Reiter) et al.**

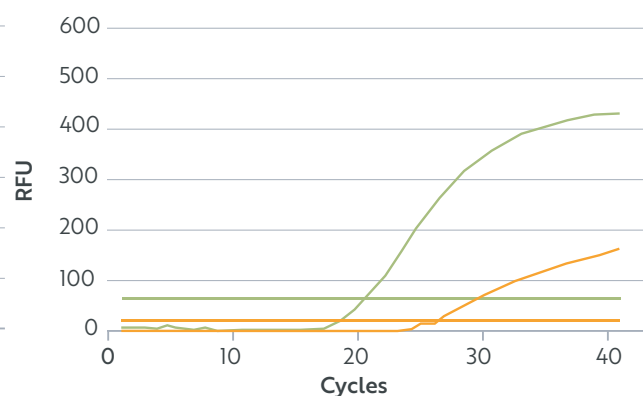
- All common and well documented B\*27 alleles covered in one PCR mix
- Internal amplification control included
- Genomic DNA (FastQ<sup>®</sup> B\*27) or whole blood (FastQ<sup>®</sup> B\*27 direct) as sample material

## RESULTS WITH FastQ<sup>®</sup> B\*27



### **B\*27 negative sample**

Only the internal amplification control (orange) is positive.



### **B\*27 positive sample (M. Bechterew associated allele)**

Internal control (orange) and B\*27 specific reaction (green) are positive.

# FastQ<sup>®</sup> CD – COELIAC DISEASE

## PRODUCT FEATURES

- **FastQ<sup>®</sup> CD** detects the relevant DQ alleles associated with coeliac disease in only two PCR mixes using four colours
- Internal amplification control included
- User-friendly PlexTyper<sup>®</sup> interpretation

## COELIAC DISEASE ASSOCIATED HAPLOTYPES

	DQB1*	DQA1*	DRB1*
DQ2 cis	02:01	05:01	03
DQ2 trans	*03:01	05:05	11
	02:02	02:01	07
DQ8	03:02	03:01	04

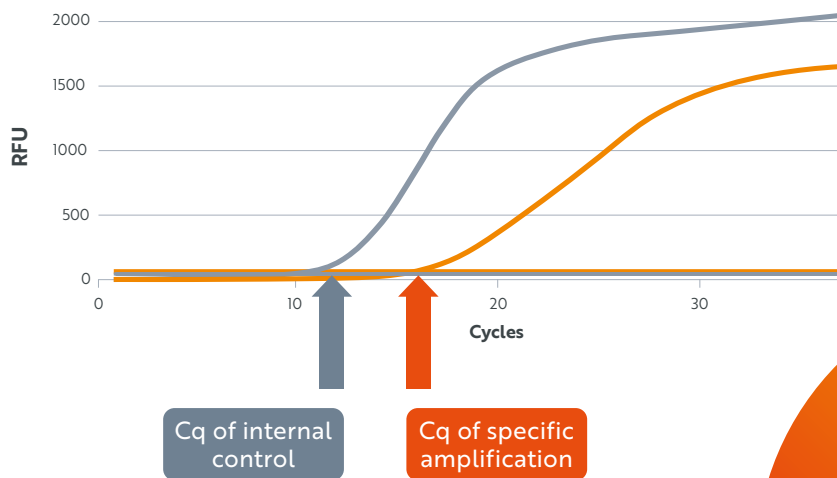


Associated allele detected by **FastQ<sup>®</sup> CD**



Associated allele that does not need to be detected because it is present in linkage disequilibrium with the detected alleles

## ROBUST RESULTS WITH PlexTyper® SOFTWARE



Normalization of the reactions against the positive control makes the test robust against variations of the fluorescence intensity. Therefore, CFX instruments need no colour compensation.

### COMPELLING PlexTyper® SOFTWARE

- Optimised curve recognition algorithm
- Automated interpretation and reports
- Connection to LIMS
- Intuitive user experience

## VALIDATED THERMAL CYCLERS

### **BIO-RAD** CFX96 Touch™ **BIO-RAD** CFX Opus

- No colour calibration required
- Plug-and-play system
- Dx Systems complying with IVDR available



BIO-RAD CFX Opus

Special conditions for Bio-Rad real-time cyclers

### **Roche** LightCycler® 480 II

- Colour compensation available

### **Applied Biosystems**® QuantStudio™ 6 Flex

- Colour calibration available



## WORKFLOW

1

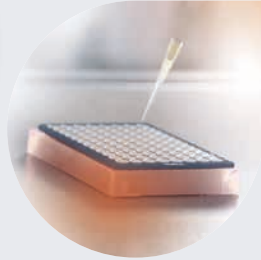
Mix sample DNA or diluted blood with qPCR mastermix and oliomix. Add blood booster for B\*27 direct.



10 min. hands-on time

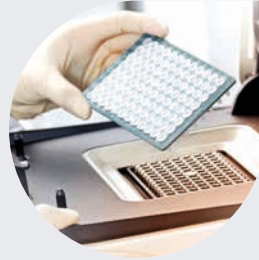
2

Dispense the pre-mix to the PCR wells.



3

Place the PCR wells in the real-time cycler and run the PCR program.



< 60 min. cycling

4

Import data into the evaluation software.



10 min. interpretation

PRODUCTS	DESCRIPTION	PACKAGE	REF
Ankylosing spondylitis (M. Bechterew) et al.			
<b>FastQ® B*27</b>	Real-time PCR kit	96 tests	728208
<b>FastQ® B*27 direct</b>	Real-time PCR kit directly from blood	96 tests	728201
Coeliac disease			
<b>FastQ® CD</b>	Real-time PCR kit	48 tests	728202

## YOUR BENEFITS

**Easy use**

**Unique quality score and automated interpretation**

**Feel confident with the results**

**User-friendly interpretation software**

**Feel cared for**

**Compelling implementation and support by BAG Diagnostics**

## 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.

### **BAG Diagnostics GmbH**

Amtsgerichtsstr. 1-5  
35423 Lich/Germany

T. +49 (0) 6404/925-0  
F. +49 (0) 6404/925-460  
M. [info@bag-diagnostics.com](mailto:info@bag-diagnostics.com)  
W. [www.bag-diagnostics.com](http://www.bag-diagnostics.com)

A BAG Group company

### **Customer Service**

T. +49 (0) 6404/925-125  
F. +49 (0) 6404/925-421  
M. [service@bag-diagnostics.com](mailto:service@bag-diagnostics.com)

**BAG**   
DIAGNOSTICS