

WE LIVE TO EXCITE



FAST AND
FLEXIBLE

DISCOVER OUR SMART REAL-TIME
PCR ASSAYS

FastQ[®] DISEASE ASSOCIATION
TYPING

BAG 
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

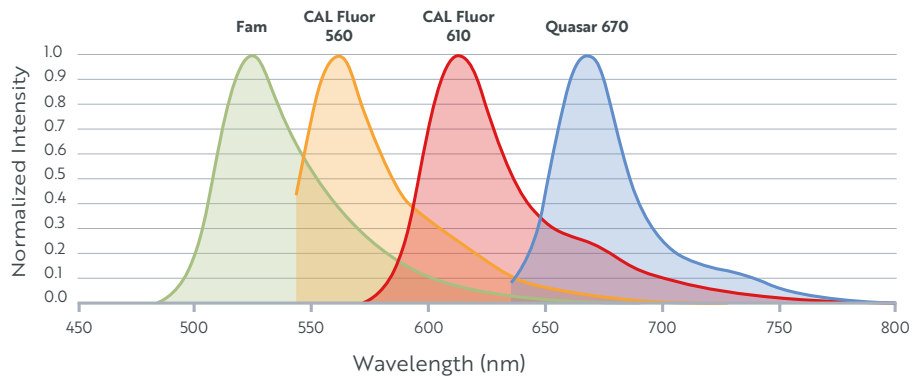
Keep hands on time to a minimum and get results in less than 80 min.

Be efficient

Use the diluted blood immediately with our FastQ® direct kit

UP TO FOUR COLOUR MULTIPLEXING

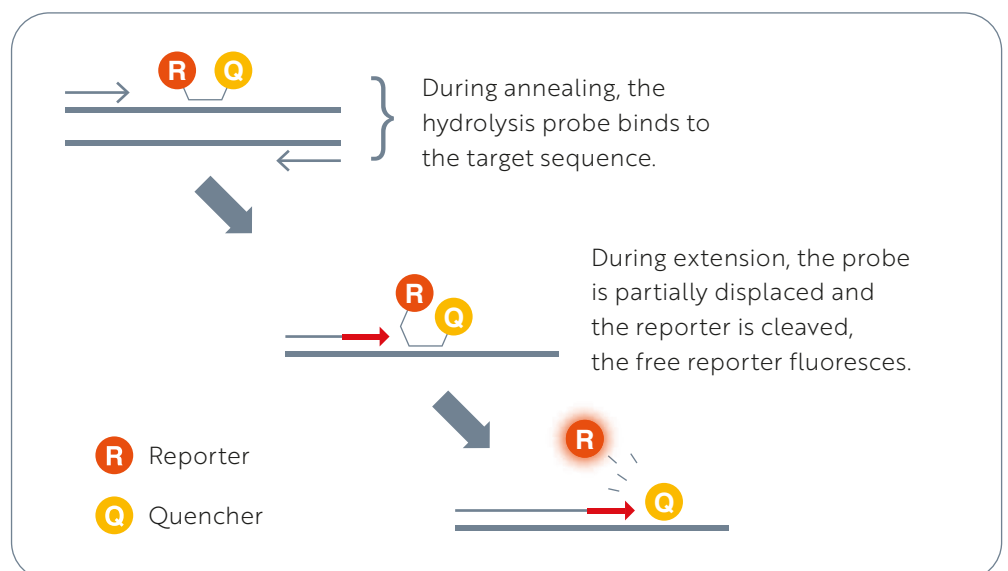
Colours with separated emission spectra were selected:



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[®] 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.

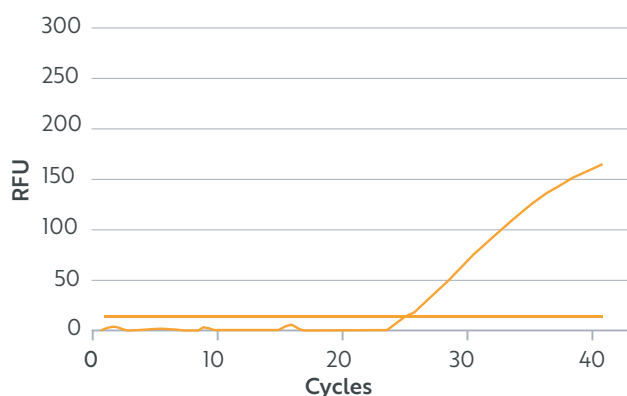
FastQ® B*27 & FastQ® B*27 direct – ANKYLOSING SPONDYLITIS (M. BECHTEREW) ET AL.

PRODUCT FEATURES

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

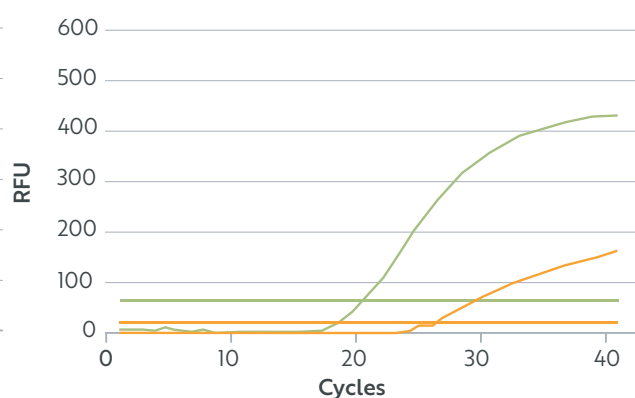
- All common and well documented B*27 alleles covered in one PCR mix
- Internal amplification control included
- Genomic DNA (FastQ® B*27) or whole blood (FastQ® B*27 direct) as sample material

RESULTS WITH FastQ® 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® CD – COELIAC DISEASE

PRODUCT FEATURES

- **FastQ® 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® 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

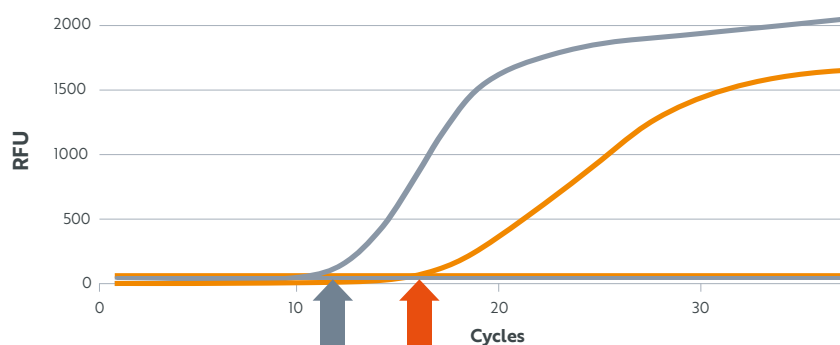


Associated allele detected by **FastQ® CD**



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



Cq of internal control

Cq of specific amplification

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



scan & check online

WORKFLOW



PRODUCTS	DESCRIPTION	PACKAGE	REF
Ankylosing spondylitis (M. Bechterew) et al.			
FastQ® B*27	Real-time PCR kit	96 tests	728208
FastQ® B*27 direct	Real-time PCR kit directly from blood	96 tests	728201
Coeliac disease			
FastQ® CD	Real-time PCR kit	48 tests	728202
Accessories			
Multichannel Test Plate RUO	Colour Performance Evaluation on Bio Rad CFX	1 test	726322

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
W. 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

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