



RBC-FluoGene[®]

Real-time Typing System

For Research Use Only. Not for use in diagnostic procedures.

Blood group genotyping with inno-train

RBC-FluoGene® is the perfect solution for your blood group typing.

It combines a hands-on time of less than 5 minutes with a robust and fast real-time PCR. The closed system offers maximal safety for your typing.

Our products have been designed in cooperation with immunohaematological reference labs and are all CE IVD marked.

The assays are based on the well-established TaqMan technique and can be run on our endpoint-fluorescence analyzer **FluoVista®** and real-time cycler **FluoQube®**.

Our FluoGene® Software is easy to use and highly precise in diagnostic analysis.

Measured raw data is automatically imported into our FluoGene® Software and a typing report with the official ISBT nomenclature is calculated. There is no risk of mixing up the assays, as all FluoGene® plates are labeled with a unique barcode.

All results can be printed or saved as reports or be exported into your laboratory information and management system.

We offer perfectly synced test assays, instruments and software from one reliable source.

**Your Worldwide Partner in
Transfusion Diagnostics**



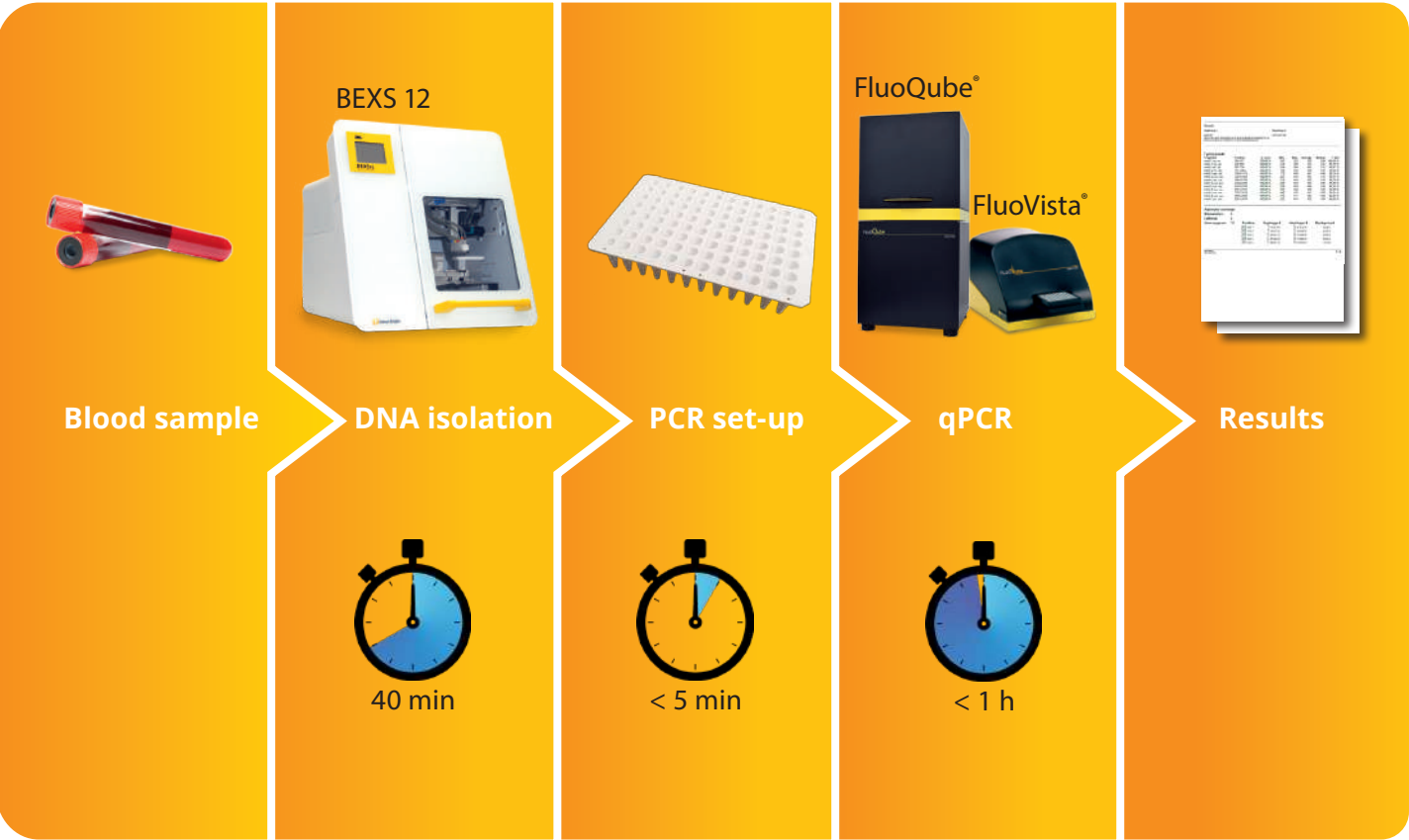
Your advantages with inno-train



- Save your valuable working time:
 - › Automated genotyping: < 70 minutes
 - › Minimal hands-on time: < 5 minutes
- Well-established TaqMan® technique
- Small DNA-usage (e.g. 150 ng per RBC-FluoGene^{NX} ABO plus typing)
- Ready-to-use kits consists of:
 - › FluoMix (incl. Taq)
 - › PCR plates (incl. dried primer/probe-mixes)
 - › Optical clear sheets
- Highest safety measures
 - › Barcoded tests
 - › Closed system
- Flexibility:
 - › FluoQube®: High-performance real-time PCR
 - › FluoVista®: Efficient fluorescence-endpoint determination
 - › 70 blood group antigens / phenotypic variants in one test
 - › Vast variety of test assays (e.g. KKD, AB0, Rare, etc.)
 - › Same system for HLA, RBC, and HPA
- User-friendly software with fully automated result calculation
- Automatic data transfer
- All from one manufacturer: IVD CE marked hardware, test assays, and software



Workflow



Just a few clicks to your genotyping result

All blood group systems at a glance

Qualitative evidence for each reaction

Genotypes and predicted phenotypes in ISBT nomenclature

Detected SNPs

Intuitive interpretation assistance functions

System	Genotype	Predicted Phenotype 1	Predicted Phenotype 2	Detected SNP
RHD	RHD*01	RH: 1	D	455A(E3), 675G(E5), 787G(E5), 5'UTR+165A
RHD	RHD*01N.01	RH: 1	D	455A(E3), 675G(E5), 787G(E5), 3'UTR+165A
RHCE	RHCE*01/02	RH: 2-3,4,5,8	Cee	767G(C), 675G(E5), 787G(E5), 3'UTR+165A
Kell	KEL*02	KEL: 1,2	Kk+	
Kidd	JK*02	JK: 1,2	Jk(a-b+)	838G>A
Duffy	FY*01/02	FY: 1,2	Fy(a-b+)	471, 125G>A
MNS	GYP*A*01/02 GYP*B*03/04	MNS: 1,2 MNS: 3,4,5	M+N+ S++b+	71G, 71G>A, 72T, 72T>G 143C, 143C>T
Dombrock	DO*02	DO: 1,2	Do(a-b+)	753A>G

Duffy
FY 02/01 v1.2

91
92
92H.01
92W.01

Probes F1 (FPG-M2)

CT	CT Factor	Gradient	Average	Q Value	Cut Off	Score	
Control	24	1.5	100 %	11 %	15.8 (3)	2	Positive
Reaction	25	1.5	520 %	25 %	35.9 (2)	8	Positive

Our new products

RBC-FluoGene® Q

- qPCR kits with 1 to 2 primer-probe mixes in liQuid format
- Ready-to-use reagents, including buffer and control DNAs
- Suitable for all common real-time devices (96/384 block)



RBC-FluoGene® D weak Screen Q

For the detection of D weak Type 1/2/3 and 4.0/4.1, 4.2 and 4.3

- 1st mix detects *RHD*01W.1*, *RHD*01W.2* and *RHD*01W.3* (= D+)
- 2nd mix: Separation of *RHD*09* allele cluster (= separation of *D weak type 4.0/4.1* alleles from 4.2 and 4.3)
- Evaluation is performed by the Ct-value calculation of the used real-time device

Article no.: 001 093 100Q, 2 reactions/test, 100 tests/kit

RBC-FluoGene® RHD Zygosity Q

- Quantification of *RHD* exons 1 and 10 for determination of *RHD* zygosity DD vs. Dd by Real-Time PCR
- Calculation of RHD zygosity is performed by the $\Delta\Delta C_t$ -value

Article no.: 001 094 100Q, 2 mixes/test, 100 tests/kit

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