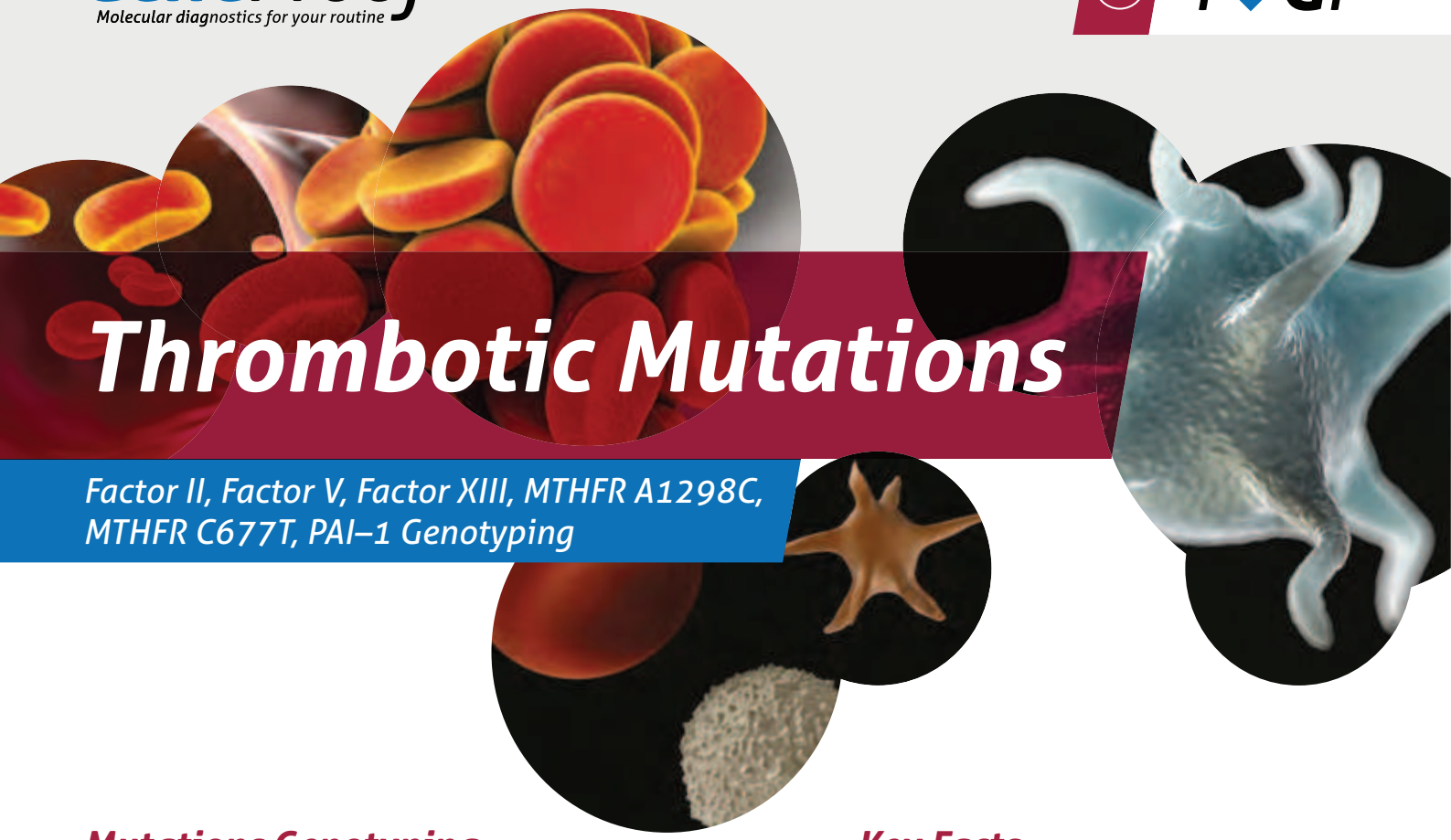
GeneProof
Molecular diagnostics for your routine

I ♥ GP



Thrombotic Mutations

Factor II, Factor V, Factor XIII, MTHFR A1298C, MTHFR C677T, PAI–1 Genotyping

Mutations Genotyping

/ **Coagulation factors**

Faktor II – prothrombin
- hypothrombinemia

Faktor V – proaccelerin, labile factor
- Leiden mutation
- up to 10 times higher thrombosis development risk

Faktor XIII – Laki–Lorand factor, fibrin stabilizing factor
- affects the quality of thrombus

NEW PRODUCT

/ **Methylenetetrahydrofolate reductase (MTHFR)**

MTHFR A1298C and **MTHFR C677T**
- accumulation of homocysteine in plasma
- increased risk of repeated miscarriages in I. trimester
- risk of venous thromboembolism

/ **Acute-phase proteins**

PAI-1 – plasminogen activator inhibitor-1
- decreased fibrinolysis
- atherothrombosis marker
- genotype 4G/4G – up to 38% risk of miscarriage

Key Facts

/ Disruption of balance between coagulation and fibrinolysis
- hypothrombinemia
- venous thromboembolism
- pulmonary embolism
- cardiovascular diseases
- risk of vascular diseases of placenta, fetal growth disorders, repeated miscarriages, premature births

Diagnostics

/ Examination of hemocoagulation and its inhibitors

/ Monitoring of acute-phase proteins levels

/ Targeted genotyping of thrombophilic mutations
- minimizes the risk of life-threatening conditions
- minimizes risks for mother and fetus during pregnancy

Guaranteed control over the complete process of development, manufacturing and distribution of all the offered GeneProof products.

www.geneproof.com

GeneProof Factor XIII V34L PCR Kit

CE IVD

/ The PCR kit is designed to detect polymorphism of the *F13A1* gene encoding the subunit A of FXIII factor by the real-time Polymerase Chain Reaction (PCR) method.

The method is based on amplification and detection of the target sequence using allele specific fluorophore labelled probes. Target sequence is a single nucleotide replacement of guanine by thymine in site 103 (G103T). Presence of wild-type allele (G103G) is detected in the FAM fluorescent channel and mutant allele (T103T) in the HEX fluorescent channel. In case of heterozygous genotype (G103T) a signal is detected in both channels. Detection kit contains Ready to Use MasterMix and utilizes "hot start" technology, minimizing non-specific reactions and assuring maximum sensitivity. Kit is designed for *in vitro* diagnostics.

technical specification

Techology	real-time PCR
Target Sequence	*F13A1* gene
Specificity	V34L polymorphism of the *F13A1* gene (G103T)
Detection limit	2 ng/µl
Qualitative Detection	mutation present × not present
Evaluation	**G/G** – standard homozygote (wild type) **T/T** – mutant homozygote **G/T** – heterozygote
Validated Sample Material	whole blood
Kit Storage	-20 °C ± 5 °C
Validated Isolation Methods	croBEE NA16 Nucleic Acid Extraction System GeneProof PathogenFree DNA Isolation Kit
Validated Real-Time PCR Devices	croBEE Real-Time PCR System LightCycler® 2.0 LineGene 9600 Plus Rotor-Gene 3000/6000 SLAN® Real-Time PCR System
Required Detection Channels	FAM, HEX
Quality Control	regularly tested by **INSTAND e.V.** External Quality Assessment panels – results at www.geneproof.com
Certification	CE IVD for *in vitro* Diagnostics Use

order

Product name	Techology	Cat. No. 50 reactions	Cat. No. 100 reactions
Thrombotic Mutations			
GeneProof Factor II Prothrombin PCR Kit	real-time PCR	FII/050	FII/100
GeneProof Factor V Leiden PCR Kit	real-time PCR	FV/050	FV/100
GeneProof Factor XIII V34L PCR Kit	real-time PCR	FXIII/050	FXIII /100
GeneProof MTHFR A1298C PCR Kit	real-time PCR	M1298/050	M1298/100
GeneProof MTHFR C677T PCR Kit	real-time PCR	M677/050	M677/100
GeneProof PAI-1 Genotyping PCR Kit	real-time PCR	PAI/050	PAI/100

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