ESTABLISHED INNOVATIONS IN DIAGNOSTICS

D2PCR™ Buffer

The D2PCR™ Buffer for direct-to-PCR applications combined with ultrafast thermocyclers allows genotyping in < 1 hour

Ready-to-use PCR templates

The D2PCR™ Buffer is designed to offer a rapid and simple protocol for generating ready-to-use PCR templates. These templates can be used directly for the subsequent PCR without any further processing of the DNA.
The D2PCR™ Buffer is compatible with ViennaLab singleplex and multiplex RealFast™ Assays.

When used with RealFast™ Assays and combined with ultrafast cycling on the MIC*) qPCR Cycler, complete genotyping from drawing blood to final result can be accomplished in less than 1 hour.
Moreover, RealFast™ Assays can be run on D2PCR™ Buffer templates also on various common real-time PCR instruments.

ViennaLab D2PCR™ Buffer

- Rapid and simple protocol
- Less than 1 hour from sample to result
- Ready-to-use buffer
- Compatible with ViennaLab singleplex and multiplex RealFast™ Assays
- Compatible with various real-time PCR instruments

*) Magnetic Induction Cycler (www.biomolecularsystems.com)

Order Information:
D2PCR™ Buffer: 2-030 (100 extractions)

For more details please visit: www.viennalab.com

ViennaLab RealFast™ Assays for single marker detection (compatible with the D2PCR™ Buffer)				
Area	**Product**	**REF 100 / 32 Rxn**	**Label**	**Application**
Carbamazepine Hypersensitivity	**HLA-A3101** RealFast™ Assay	7-640 / 7-643	CE/IVD	Detects the human leukocyte antigen-A (HLA-A) 3101 allele, which is strongly associated with carbamazepine hypersensitivity reactions in Europeans and Japanese
	HLA-B1502 RealFast™ Assay	7-630 / 7-633	CE/IVD	Detects the human leukocyte antigen-B (HLA-B) 1502 allele, which is strongly associated with carbamazepine hypersensitivity reactions in Asian populations
Carbohydrate Intolerance	**LCT -13910C>T** RealFast™ Assay	7-150 / 7-153	CE/IVD	Detects the most common polymorphism in the *lactase (LCT)* gene causing lactase non-persistence
Cardiovascular Diseases (CVD)	**FGB -455G>A** RealFast™ Assay	7-230 / 7-233	CE/IVD	Identifies homozygousity for the -455G>A *fibrinogen beta-chain (FGB)* allele which may increase susceptibility to atherothrombosis in at-risk patients
	FV Leiden RealFast™ Assay	7-110 / 7-113	CE/IVD	Detects the most common genetic risk factor associated with venous thromboembolism, the 1691G>A mutation in the *Factor V (FV)* gene
	FXII 46C>T RealFast™ Assay	7-240 / 7-243	CE/IVD	Identifies patients with the unfavorable TT genotype for *Factor XII (FXII)*, who may have an increased susceptibility to thrombotic disorders
	FXIII V34L RealFast™ Assay	7-250 / 7-253	CE/IVD	Identifies carriers of the protective 34L variant of Factor XIII (FXIII) among at-risk patients of hereditary thrombophilia
	MTHFR 677C>T RealFast™ Assay	7-160 / 7-163	CE/IVD	Detect common mutations in the *methylenetetrahydrofolate reductase (MTHFR)* gene causing hyperhomocysteinemia, which is a risk factor for cardiovascular disease
	MTHFR 1298A>C RealFast™ Assay	7-170 / 7-173	CE/IVD	
	PAI-1 4G/5G RealFast™ Assay	7-180 / 7-183	CE/IVD	Detects the 4G risk allele in the *plasminogen activator inhibitor-1 (PAI-1)* gene, associated with cardiovascular disease and pregnancy complications
	PTH 20210G>A RealFast™ Assay	7-120 / 7-123	CE/IVD	Detects the second most important genetic risk factor for venous thromboembolism in the *prothrombin (PTH)* gene
Genetic Predisposition	**HLA-B27** RealFast™ Assay	7-620 / 7-623	CE/IVD	Detects the human leukocyte antigen-B (HLA-B) 27 allele, which is associated with ankylosing spondylitis
Haemochromatosis	**HFE C282Y** RealFast™ Assay	7-130 / 7-133	CE/IVD	Detect common mutations in the *HFE* gene causing hereditary haemochromatosis (HH) type 1
	HFE H63D RealFast™ Assay	7-140 / 7-143	CE/IVD	
Pharmacogenetics	**HLA-B5701** RealFast™ Assay	7-610 / 7-613	CE/IVD	Detects human leukocyte antigen-B (HLA-B) 5701 allele, which is associated with hypersensitivity to the anti-HIV drug abacavir
	IL28B RealFast™ Assay	7-200 / 7-203	CE/IVD	Detects a dinucleotide frame-shift variant coding for interleukin 28B (IL28B) and helps to predict the therapeutic response in Hepatitis C Virus infected patients
	SLCO1B1c.521T>C RealFast™ Assay	7-210 / 7-213	CE/IVD	Detects a variant in human *solute carrier organic anion transporter family member 1B1 (SLCO1B1)* gene in patients who are at higher risk for developing statin-induced myopathy
	VKORC1 -1639G>A RealFast™ Assay	7-190 / 7-193	CE/IVD	Detects the most important polymorphism in the *Vitamin K Epoxide Reductase Complex 1 (VKORC1)* gene associated with interindividual dose requirements for oral anticoagulants
ViennaLab RealFast™ Assays for multiplex testing - save costs and sample material (compatible with the D2PCR™ Buffer)				
Cardiovascular Diseases (CVD)	**FV-PTH mpx** RealFast™ Assay	7-115 / 7-118	CE/IVD	Simultaneous detection of the most important thrombophilic mutations 1691G>A in the *Factor V* gene and 20210G>A in the *prothrombin* gene
	MTHFR mpx RealFast™ Assay	7-165 / 7-168	CE/IVD	Simultaneous detection of the most common two mutations in the *MTHFR* gene: 677C>T and 1298A>C
COPD/ AAT deficiency	**AAT mpx *)** RealFast™ Assay	7-265 / 7-268	CE/IVD	Detects *S and *Z variants of the *SERPINA1* gene predisposing individuals to chronic obstructive pulmonary disease (COPD) and liver disease due to deficiency of alpha-1 antitrypsin (AAT)
Haemochromatosis	**HFE mpx** RealFast™ Assay	7-135 / 7-138	CE/IVD	Simultaneous detection of the two most common mutations in the *HFE* gene: H63D and C282Y
Pharmacogenetics	**CYP2C9 mpx *)** RealFast™ Assay	7-225 / 7-228	CE/IVD	Simultaneous detection of *CYP2C9* *2 (c.430C>T) and *CYP2C9* *3 (c.1075A>C) polymorphisms to determine the drug response of known targets, like S-warfarin or phenytoin

*) not suitable for ultrafast cycling on the MIC qPCR Cycler

Additional diagnostic applications that are covered by ViennaLab RealFast™ Assays: Liquid Profiling, Congenital Adrenal Hyperplasia, CYP2D6 CNV determination NEW!, Covid-19 testing NEW!.

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