



StripAssays[®] & RealFast[™] Assays

In vitro diagnostic tests for inherited diseases, genetic predispositions, pharmacogenetics and oncology

ViennaLab is an Austrian company with a successful history of more than 20 years in developing, manufacturing and worldwide distributing genetic tests.

StripAssays[®] based on reverse hybridization have up to 48 immobilized probes for wild-type and mutated alleles, are **accurate and reliable**.

RealFast[™] Assays are based on **real-time PCR** and detect single nucleotide polymorphisms (SNPs) and copy number variations (CNVs) **fast and simply**.

We offer

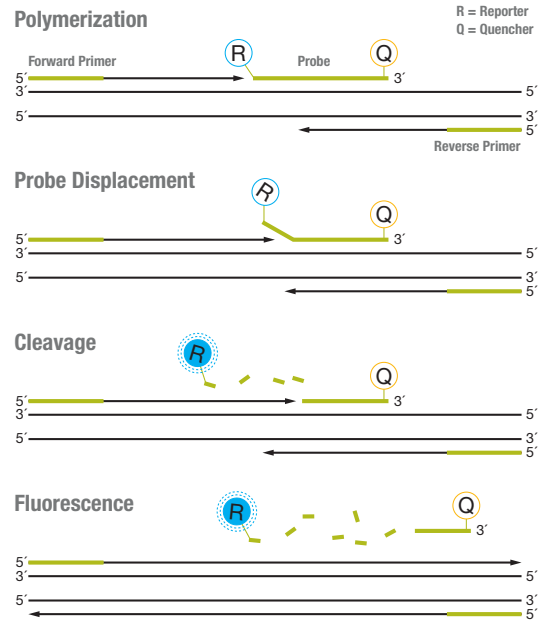
Tests for Cardiovascular Diseases, Thalassemia, Familial Mediterranean Fever, Haemochromatosis, Gaucher Disease, Alzheimer Disease, Sugar (Lactose, Fructose) Intolerance, Congenital Adrenal Hyperplasia, Cystic Fibrosis, KRAS, BRAF, among others. Products of the **pharmacogenetics and oncology** portfolio help to achieve safer and more individualized anticoagulant and cancer therapies.

Quality Management System

All ViennaLab products are designed and manufactured according to the quality standards of **ISO 9001, ISO 13485**, and are **CE/IVD marked**. The tests are also used in many international research studies and quality assessment schemes, which allow scientific evidence of the quality employed.



Test Principle of RealFast™ Assays



RealFast™ Assays

Area	Product	REF	Label	Application
Carbohydrate Intolerance	LCT -13910C>T RealFast™ Assay	7-150	CE/IVD	Detects the most common polymorphism in the <i>lactase (LCT)</i> gene causing lactase non-persistence
Cardiovascular Diseases (CVD)	FGB -455G>A NEW! RealFast™ Assay	7-230	CE/IVD	Identifies homozygosity for the -455G>A <i>fibrinogen beta-chain (FGB)</i> allele which may increase susceptibility to atherothrombosis in at-risk patients
	FV Leiden RealFast™ Assay	7-110	CE/IVD	Detects the most common genetic risk factor associated with venous thromboembolism, the 1691G>A mutation in the <i>Factor V (FV)</i> gene
	FXII 46C>T NEW! RealFast™ Assay	7-240	CE/IVD	Identifies patients with the unfavorable TT genotype for <i>Factor XII (FXII)</i> , who may have an increased susceptibility to thrombotic disorders
	FXIII V34L NEW! RealFast™ Assay	7-250	CE/IVD	Identifies carriers of the 34L variant of Factor XIII (FXIII) and hence at-risk patients of hereditary thrombophilia
	MTHFR 677C>T RealFast™ Assay	7-160	CE/IVD	Detect common mutations in the <i>methylenetetrahydrofolate reductase (MTHFR)</i> gene causing hyperhomocysteinemia, which is a risk factor for cardiovascular disease
	MTHFR 1298A>C RealFast™ Assay	7-170	CE/IVD	
	PAI-1 4G/5G RealFast™ Assay	7-180	CE/IVD	Detects the 4G risk allele in the <i>plasminogen activator inhibitor-1 (PAI-1)</i> gene, associated with cardiovascular disease and pregnancy complications
	PTH 20210G>A RealFast™ Assay	7-120	CE/IVD	Detects the second most important genetic risk factor for venous thromboembolism in the <i>prothrombin (PTH)</i> gene
Congenital Adrenal Hyperplasia	CAH RealFast™ CNV Assay	7-410	CE/IVD	Discriminates between deletions, duplications and normal copy number status of the <i>CYP21A2</i> gene in patients with CAH
Genetic Predisposition	HLA-B27 RealFast™ Assay	7-620	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	CE/IVD	Detect common mutations in the <i>high Fe (HFE)</i> gene causing hereditary haemochromatosis (HH) type 1
	HFE H63D RealFast™ Assay	7-140	CE/IVD	
Pharmacogenetics	HLA-B5701 RealFast™ Assay	7-610	CE/IVD	Detects human leukocyte antigen-B (HLA-B) 5701 allele, which is associated with hypersensitivity to the anti-HIV drug abacavir
	IL28B NEW! RealFast™ Assay	7-200	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
	SLC01B1c.521T>C NEW! RealFast™ Assay	7-210	CE/IVD	Detects a variant in human <i>solute carrier organic anion transporter family member 1B1 (SLC01B1)</i> gene in patients who are at higher risk for developing statin-induced myopathy
	VKORC1 -1639G>A RealFast™ Assay	7-190	CE/IVD	Detects the most important polymorphism in the <i>Vitamin K Epoxide Reductase Complex 1 (VKORC1)</i> gene associated with interindividual dose requirements for oral anticoagulants
Service	RealFast™ Confirmation Service	CS-045	---	Service to assist in establishing RealFast™ Assays as well as for performance monitoring

The three steps of the StripAssays®

1. Amplification: Multiplex PCR. Simultaneous biotin-labelling
2. Hybridization: Directly on the StripAssay® teststrips
3. Identification: Labeled products detected by streptavidin-alkaline phosphatase

StripAssays®

Area	Product	REF	Label	Application
Alzheimer Disease	Apo E StripAssay®	4-280	CE/IVD	Detection of isoforms Apo E2, E3 and E4
Carbohydrate Intolerance	Lactose Intolerance StripAssay®	4-300	CE/IVD	Detection of two <i>lactase</i> gene polymorphisms -13910T>C and -22018A>G
	Sugar Intolerance StripAssay®	4-310	CE/IVD	Detection of two <i>lactase</i> gene polymorphisms and four <i>aldolase B</i> gene mutations
Cardiovascular Diseases	CVD StripAssay®	4-240	CE/IVD	Testing for 12 genetic variants associated with cardiovascular diseases
	CVD StripAssay® A	4-370	CE/IVD	Testing for 8 genetic variants predisposing to atherosclerosis
	CVD StripAssay® T	4-360	CE/IVD	Testing for 9 genetic variants predisposing to venous thromboembolism
	FV StripAssay®	4-330	CE/IVD	Detection of the <i>Factor V</i> gene mutation R506Q (FV Leiden)
	FV-PTH StripAssay®	4-290	CE/IVD	Detection of the <i>Factor V</i> Leiden and <i>prothrombin</i> gene mutations
	FV-PTH-MTHFR StripAssay®	4-260	CE/IVD	Detection of the <i>Factor V</i> Leiden, <i>prothrombin</i> and <i>MTHFR</i> gene mutations
	MTHFR StripAssay®	4-350	CE/IVD	Detection of the <i>MTHFR</i> gene mutation 677C>T
PTH StripAssay®	4-340	CE/IVD	Detection of the <i>prothrombin</i> gene mutation 20210G>A	
Congenital Adrenal Hyperplasia	CAH StripAssay®	4-380	CE/IVD	Testing for 11 <i>CYP21A2</i> mutations
Cystic Fibrosis	CF StripAssay®	4-410	CE/IVD	Detection of 34 common <i>CFTR</i> mutations and the IVS8 variants 5T/7T/9T
	CF StripAssay® GER	4-430	CE/IVD	Detection of 31 common <i>CFTR</i> mutations
	CF StripAssay® TUR	4-420	CE/IVD	Detection of 24 common <i>CFTR</i> mutations and the IVS8 variants 5T/7T/9T
Familial Mediterranean Fever	FMF StripAssay®	4-230	CE/IVD	Detection of 12 <i>MEFV</i> gene mutations
	FMF-SAA1 StripAssay®	4-390	CE/IVD	Detection of 12 <i>MEFV</i> gene mutations and <i>SAA1</i> genotypes 1.1, 1.3 and 1.5
Gaucher Disease	Gaucher Disease StripAssay®	4-250	CE/IVD	Detection of 8 mutations and two recombinant alleles in the <i>glucocerebrosidase (GBA)</i> gene
Genetic Predisposition	HLA-B27 StripAssay®	4-320	CE/IVD	Detection of all disease-relevant <i>HLA-B27</i> subtypes
Haemochromatosis	Haemochromatosis StripAssay® A	4-220	CE/IVD	Detection of 18 mutations: twelve <i>HFE</i> mutations, four <i>TFR2</i> mutations and two <i>FPN1</i> mutations
	Haemochromatosis StripAssay® B	4-210	CE/IVD	Detection of 3 <i>HFE</i> gene mutations: C282Y, H63D, S65C
Pharmacogenetics (PGX) & Oncology	BRAF StripAssay®	5-570	CE/IVD	Ultra-sensitive detection of <i>BRAFV600E</i> mutation
	BRAF 600/601 StripAssay®	5-560	CE/IVD	Ultra-sensitive detection of 9 <i>BRAF</i> mutations in codons 600 and 601
	EGFR XL StripAssay®	5-630	CE/IVD	Ultra-sensitive detection of 30 <i>EGFR</i> mutations in exons 18/19/20/21
	FCGR StripAssay®	5-670	CE/IVD	Detection of allelic variants of Fc gamma-Receptor 2A (H131R) and 3A (F158V) associated with response to IgG antibody therapy
	KRAS StripAssay®	5-590	CE/IVD	Ultra-sensitive detection of 10 <i>KRAS</i> mutations in codons 12 and 13
	KRAS-BRAF StripAssay®	5-580	CE/IVD	Ultra-sensitive detection of 10 <i>KRAS</i> mutations in codons 12/13 and <i>BRAFV600E</i> mutation
	KRAS XL StripAssay®	5-680	CE/IVD	Ultra-sensitive detection of 29 <i>KRAS</i> mutations in codons 12/13/59/60/61/117/146
	NRAS XL StripAssay®	5-620	CE/IVD	Ultra-sensitive detection of 22 <i>NRAS</i> mutations in codons 12/13/59/60/61/146
	PGX-5FU StripAssay®	4-720	CE/IVD	Detection of <i>DPYD</i> allelic variant IVS14+1 G>A associated with toxicity of 5-FU therapy
	PGX-CYP2C19 StripAssay®	4-750	CE/IVD	Testing for CYP2C19 variants *2, *3, *4, *5, *6, *7, *8 and *17
	PGX-CYP2D6 StripAssay®	4-760	CE/IVD	Testing for CYP2D6 variants *3, *4 and *6
	PGX-HIV StripAssay®	4-710	CE/IVD	Testing for genotypes associated with response to HIV highly active anti-retroviral therapy
	PGX-Thrombo StripAssay®	4-730	CE/IVD	Testing for <i>CYP2C9</i> and <i>VKORC1</i> variants associated with anticoagulant dose requirements (Coumadin®, Marcumar®, Sintrom®)
PGX-TPMT StripAssay®	4-740	CE/IVD	Testing for TPMT variants *2, *3A, *3B and *3C associated with response to thiopurine therapy	
Software	StripAssay® Evaluator	6-100	CE/IVD	Software for automated teststrip scanning and interpretation of results
Thalassemia	α-Globin StripAssay®	4-160	CE/IVD	Detection of 21 common α-Globin gene mutations
	β-Globin StripAssay® MED	4-130	CE/IVD	Detection of 22 mutations covering >90% of β-Globin defects found in Mediterranean countries
	β-Globin StripAssay® IME	4-140	CE/IVD	Detection of 22 mutations covering >90% of β-Globin defects found in the Middle East and India
	β-Globin StripAssay® SEA	4-150	CE/IVD	Detection of 22 mutations covering >90% of β-Globin defects found in Southeast Asia
	β-Thal Modifier StripAssay®	4-170	CE/IVD	Testing for 5 polymorphisms associated with severity of β-Thalassemia
Service	StripAssay® Confirmation Service	CS-042	---	Service to assist in establishing StripAssays® as well as for performance monitoring



Platform Attributes

	StripAssay®	RealFast™ Assay
• Simplicity	Simple and straightforward protocols	Fast and easy handling
• Efficiency	Manual or automated	Compatible with many real-time PCR instruments
• Speed	Less than 6 hours from DNA to result	Less than 90 min from DNA to result
• Reliability	Easy and clear interpretation of results	Include controls for wild type and mutant genotypes
• Flexibility	Additional mutations readily integrated	Same protocol for all genotyping assays
• Convenience	Ready-to-use reagents; inexpensive equipment; CE/IVD labeled kits; sensitive and affordable	

StripAssay® Evaluator Software

For scanning and analyzing teststrips that have been processed according to StripAssay® instructions. In combination with a flatbed office scanner the Evaluator software permits one-step, automated analysis of up to 20 teststrips.



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