VIENNA LAB
ESTABLISHED INNOVATIONS IN DIAGNOSTICS

CF StripAssays®

Identify the most relevant *CFTR* mutations and variants for newborn screening and confirmatory genotyping

Cystic Fibrosis (CF) is the most common life-limiting autosomal recessive disorder in the Caucasian population. The disease incidence is estimated to be 1 in 2,500 to 4,000 live births.

Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) represents an anion channel which is responsible for the salt-, fluid- and pH-balance in secretory and absorptive epithelial tissues.

Mutations in the *CFTR* gene lead to dysfunction of chloride transport across cell membranes.

Affected children commonly experience decreased pulmonary function along with persistent respiratory infections, pancreatic insufficiency and malnutrition.

CFTR genotyping enables early diagnosis in newborn screening and minimizes emotional stress for parents.

ViennaLab offers reliable and convenient reverse-hybridization assays tailored to population-specific mutations in different regions.

	The Assay	
CF StripAssay®	**4-410**	Detection of 34 common *CFTR* mutations and the IVS8 variants 5T/7T/9T
CF StripAssay® TUR	**4-420**	Detection of 24 common *CFTR* mutations and the IVS8 variants 5T/7T/9T found in the Turkish population
CF StripAssay® GER	**4-430**	Detection of 31 common *CFTR* mutations found in the German population

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ViennaLab CF StripAssays®

- Simple protocol for complex diagnostic questions
- Manual or automated processing
- No expensive lab equipment
- Ready-to-use reagents
- CE/IVD-labeled kits including DNA extraction

StripAssays®			
Mutations	**CF**	**CF TUR**	**CF GER**
CFTRdel2,3 (21kb)	x		x
E60X			x
G85E	x	x	x
E92X		x	x
E92K		x	
394delTT	x		
R117H	x		
Y122X	x		
M152V		x	
621+1G>T	x	x	x
711+1G>T	x		
1078delT	x		x
R334W	x	x	x
I336K			x
R347H	x	x	
R347P	x	x	x
IVS8 T5/T7/T9	x	x	
A455E	x		x
I507del (-ATC)	x		x
F508del (-CTT)	x	x	x
1677delTA		x	x
1717-1G>A	x	x	x
G542X	x	x	x

StripAssays®			
Mutations	**CF**	**CF TUR**	**CF GER**
G551D	x		x
R553X	x		x
R560T	x		
1898+1G>A	x		
2043delG		x	
2143delT	x		x
2183AA>G	x	x	x
2184insA	x	x	x
2184delA	x	x	x
E831X		x	
2789+5G>A	x	x	x
3120+1G>A	x		
3272-26A>G	x		x
Y1092X (C>A)	x		x
W1098X (TGA)		x	
M1101K			x
D1152H		x	
R1158X		x	
R1162X	x	x	x
3659delC	x		x
3849+10kbC> T	x		x
3905insT	x		x
W1282X	x	x	x
N1303K	x	x	x

The three steps of the StripAssays®

Step	Requirement
1. Amplification: Multiplex PCR. Simultaneous biotin-labeling	Thermocycler
2. Hybridization: Directly on the StripAssay® teststrips	Incubator
3. Identification: Labeled products detected by streptavidin-alkaline phosphatase	Naked eye or scanner & software

Order Information:

CF StripAssay® 4-410 (10 tests/kit) • CF StripAssay® TUR 4-420 (10 tests/kit) • CF StripAssay® GER 4-430 (10 tests/kit)

ViennaLab offers StripAssays® for a wide range of diagnostic applications. Visit www.viennalab.com

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