

CF StripAssay[®] TUR

Simple, reliable and cost-effective CFTR mutation detection

- Cystic Fibrosis (CF) is the most common life-limiting autosomal recessive disorder in the Caucasian population
- The disease incidence is estimated to be one 1 in 2,500 to 4,000 live births
- Affected children commonly experience decreased pulmonary function along with persistent respiratory infections, pancreatic insufficiency and malnutrition
- Clinical manifestations vary by severity of the underlying CFTR mutations, ranging from classical CF to the milder forms of CFTR-related disorders
- In newborn screening CFTR genotyping enables early diagnosis and minimizes emotional stress for parents



Increase diagnostic accuracy in individuals suspected of having Cystic Fibrosis

ViennaLab CF StripAssay[®] TUR detects 24 common CFTR mutations in the Turkish population

- Simple protocol for complex diagnostic questions
- Manual or automated
- No expensive lab equipment required
- Ready-to-use reagents
- Complete CE-certified kit – includes DNA extraction

CFTR

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 and cause production of thick, sticky mucus in multiple organs as well as increased sweat chloride levels, which are diagnostic for CF disease.

CFTR gene mutations detected by the CF StripAssay® TUR:

| | | |
|----------------|--------|---------------|
| F508del (-CTT) | D1152H | 621+1G>T |
| 1677delTA | R1158X | R334W |
| 1717-1G>A | R1162X | R347H |
| G542X | W1282X | R347P |
| 2043delIG | N1303K | E831X |
| 2183AA>G | G85E | W1098X (TGA) |
| 2184delIA | E92X | IVS8 T5/T7/T9 |
| 2184insA | E92K | |
| 2789+5G>A | M152V | |

The three steps of the ViennaLab CF StripAssay® TUR

| Step | Requirement |
|---|---------------------------------|
| 1. Amplification: Multiplex PCR-amplification. 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 |

Cat.no.: CF StripAssay® TUR 4-420 (10 tests/kit)

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

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