

K-ras StripAssay:

ViennaLab offers a reliable and convenient reverse-hybridization assay for the ultra-sensitive detection of mutated K-ras alleles.

The K-ras StripAssay covers 10 mutations:

codon 12 Ala
codon 12 Arg
codon 12 Asp
codon 12 Cys
codon 12 Ile
codon 12 Leu
codon 12 Ser
codon 12 Val
codon 13 Asp
codon 13 Cys

Mutated alleles are detectable even when present at less than 1% in a background of wild-type K-ras.

The K-ras StripAssay provides ready-to-use reagents for 20 tests. The entire assay can be accomplished in less than 6 hours, and may be carried out manually or largely automated.

Principle of the assay:

The K-ras StripAssay is based on reverse-hybridization of biotinylated PCR products to a parallel array of allele-specific oligonucleotides immobilized on membrane teststrips. The StripAssay provides ready-to-use reagents for completion in three easy steps:

- PCR for the amplification of mutant K-ras codon 12 and 13 sequences in the presence of a wild-type suppressor.
- Hybridization of biotinylated amplification products to oligonucleotide probes on the teststrip.
- Detection of specifically bound mutant K-ras alleles and PCR control by visible enzymatic color reaction.

Interpretation of results:

One of two possible staining patterns may be obtained:

1. all K-ras probes negative, Control positive:
none of the K-ras mutations present
2. one or more K-ras probes positive, Control positive:
respective K-ras mutation(s) present



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Cat.no.: 5-590

Further StripAssays are available or under development for: Thalassemia (α -Globin, β -Globin), Cardiovascular Disease (CVD), Familial Mediterranean Fever (FMF), Gaucher Disease, Haemochromatosis, Sugar Intolerance (lactose, fructose), Pharmacogenetics, Cancer.



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