

TECHNICAL SHEET IDYLLA™ NRAS-BRAF-EGFR S492R MUTATION ASSAY



The **Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay**, performed on the Biocartis Idylla™ System, is a molecular assay for the qualitative detection of 18 mutations in **codons 12, 13, 59, 61, 117, 146** of the *NRAS* gene, 5 mutations in **codon 600** of the *BRAF* gene and 2 mutations in **codon 492** of the *EGFR* gene. The Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay, from **sample-to-result**, starts with formalin-fixed paraffin-embedded (FFPE) human tissue from metastatic colorectal cancers to liberate DNA for subsequent real-time PCR amplification and detection.

FEATURES

NRAS mutation detection

Codon 12 (exon 2)	G12C	(c.34G>T)
	G12S	(c.34G>A)
	G12D	(c.35G>A)
	G12A	(c.35G>C)
	G12V	(c.35G>T)
Codon 13 (exon 2)	G13D	(c.38G>A)
	G13V	(c.38G>T)
	G13R	(c.37G>C)
Codon 59 (exon 3)	A59T	(c.175G>A)
Codon 61 (exon 3)	Q61K	(c.181C>A)
	Q61L	(c.182A>T)
	Q61R	(c.182A>G)
	Q61H	(c.183A>C; c.183A>T)
Codon 117 (exon 4)	K117N	(c.351G>C; c.351G>T)
Codon 146 (exon 4)	A146T	(c.436G>A)
	A146V	(c.437C>T)

NRAS Total (acting as Sample Processing Control)

BRAF mutation detection

Codon 600	BRAF V600E	(c.1799T>A; c.1799_1800delinsAA)
	BRAF V600D	(c.1799_1800delinsAC)
	BRAF V600K	(c.1798_1799delinsAA)
	BRAF V600R	(c.1798_1799delinsAG)

BRAF Total (acting as Sample Processing Control)

EGFR mutation detection

Codon 492	S492R	(c.1476C>A)
	S492R2	(c.1474A>C)

EGFR Total (acting as Sample Processing Control)

Specimen requirements

Sample Type	FFPE tissue sections (5 to 10 μ m)
Neoplastic cells	\geq 10%, if less macrodissection is required
Tissue area	50-600 mm ² (5 μ m)
	25-300 mm ² (10 μ m)

Total turnaround time

Time	120 minutes
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