

Technical sheet Idylla™ NRAS-BRAF-EGFR S492R Mutation Assay

NRAS RUO

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 10µm) | |
| Neoplastic cells | ≥10%, if less macrodissection is required | |
| Tissue area | 50-600mm ² (5µm) | |
| | 25-300mm ² (10µm) | |
| Total turnaround time | | |
| Time | 120 minutes | |

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