

# **Test Description**

*NRAS* mutation test is an in vitro diagnostic test for the qualitative detection of mutations in codons 12, 13, 59, 61, 117 and 146 of *NRAS* oncogene.

**Patient Demographic** 

Name: Ishwar Chand Gurg

Sex: Male

Date of Birth/Age: 61 Years

Disease: Moderately Differentiated Rectal Lesion

PATIENT Ishwar Chand Gurg REPORT DATE 29 August 2019 BOOKING ID 011908270432

### Clinician

Clinician Name: Dr Archit Pandit Medical Facility: Max Hospital Pathologist: Not Provided

## **Specimen**

Site: Rectal lesion

Sample Type: FFPE block H 5201/19 B Date of Collection: 27-08-2019 Date of Booking: 27-08-2019

# **NRAS** Mutation Analysis

# Result

# No Mutation Detected in NRAS

#### GENOMIC FINDINGS

No mutation detected

#### INTERPRETATION

No Mutation detected in *NRAS* codons 12, 13, 59, 61, 117 and 146.

# **METHODOLOGY**

The NRAS Mutation Test, performed on the Biocartis Idylla system, is an *in vitro* diagnostic test for the qualitative detection of 18 mutations (G12C, G12S, G12D, G12A, G12V, G13D, G13V, G13R, A59T, Q61H/Q61H, Q61K/R/L, K117N/K117N and A146T/V) in codons 12, 13, 59, 61, 117 and 146 of the *NRAS* gene. Formalin-fixed paraffinembedded (FFPE) human cancer tissue is lysed liberate DNA for subsequent real-time PCR amplification using allele specific primers. Two sample processing controls (SPC) are amplified simultaneously i.e. (1) a conserved region of the NRAS gene (referred to as NRAS-Total) and (2) a conserved region of the BRAF gene. The presence of a mutant genotype is determined by calculating the difference between the *NRAS* Sample Processing Control Cq and the Cq obtained for the *NRAS* mutant signal(s).

The analytic sensitivity of this assay has been determined at < or = 5%

## **REFERENCES**

- 1. Allegra et al. J Clin Oncol (2016) 34:179-85
- 2. Boleij et al. BMC Cancer (2016) 16:825.

August 29, 2019

Dr Gulshan Yadav, MD, Consultant Pathology

Date