

PATIENT REPORT DATE Mukesh K Saxena

06 Apr 2019

BOOKING ID 011904060024

## **Test Description**

MSI testing is used for Hereditary Cancer screening (Hereditary Non-Polyposis Colorectal Cancer -HNPCC or Lynch syndrome); As a biomarker (Prognostic and predictive biomarker for the response of Immunotherapy)

# **Patient Demographic**

Name: Mukesh K Saxena

Sex: Male

Date of Birth/Age: 46 years

Disease: Adenocarcinoma Ascending Colon

#### Clinician

Clinician Name: Dr Prashant Mehta

Medical Facility: Asian Institute of Medical Sciences

Pathologist: Not Provided

### Specimen

Site: Hepatic flexure

Sample Type: FFPE block S-1377/19 Date of Collection: 05-04-2019 **Date of Booking**: 06-04-2019

# iMSI Rapid™ Assay

# Result

# Microsatellite status - Stable

#### **BIOMARKER FINDINGS**

ACVR2A	No mutation detected
BTBD7	No mutation detected
DIDO1	No mutation detected
MRE11	No mutation detected
RYR3	No mutation detected
SEC13A	No mutation detected
SULF2	No mutation detected

#### INTERPRETATION

# Mutations are not detected in any of the 7 markers

\*MSS <2 of the 7 markers demonstrate instability

#MSI-H ≥2 of the 7 markers demonstrate instability

\*Microsatellite stable

# Microsatellite Instability-High

For valid batch test results specific controls are being run with every batch.

### **METHODOLOGY**

Multiplex detection of seven mononucleotide repeats using molecular beacon probe-based polymerase chain reaction followed by high resolution melt-curve analysis. The assay uses seven novel biomarkers ACVR2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A and SULF2 as this set of biomarkers is stable over different cancer types and ethnicities and show high performance than other known assays like Bethesda Panel. This test is carried out on Idylla platform using the MSI/1.0 Cartridge based kit which is CE IVD approved.

### REFERENCES

Zhao et al. (2014) eLife 3: e02725, 1-26. De Craene B. et al. (2018) ASCO Abstract #e15639.

Zhao et al. (2018) ASCO Abstract #e15654

April 6, 2019

Dr Gulshan Yadav, MD, Consultant Pathology

Date