

PATIENT REPORT DATE BOOKING ID
Ranjan Kumar Sharma 20 Sep 2019 011909190336

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: Ranjan Kumar Sharma

Sex: Male

Date of Birth/Age: 60 years **Disease**: Adenocarcinoma

Clinician

Clinician Name: Dr Shelly Mahajan

Medical Facility: Mahajan Imaging, Caring dx

Pathologist: Not Provided

Specimen

Site: Gastric Biopsy

Sample Type: FFPE block S-7371/19 Date of Collection: 19-09-2019 Date of Booking: 19-09-2019

iMSI RapidTM Assay

Result Microsatellite - Stable (MSS)

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

20 September 2019

Dr Gulshan Yadav, MD, Consultant Pathology

Date