**MolQ LABORATORY**  **iMSI Rapid™ Assay**

## 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)

## Clinician

Clinician Name: Dr Manish Singhal
Medical Facility: Apollo Hospital
Pathologist: Not Provided

## Patient Demographic

**Name**: Krishna Murari Srivastava
**Sex**: Male
**Date of Birth/Age**: 72 years
**Disease**: Prostate Acinar Adenocarcinoma

## Specimen

**Site**: Core biopsies of left and right lobes of Prostate
**Sample Type**: FFPE block S 5678/15
**Date of Collection**: 08-08-2019
**Date of Booking**: 09-08-2019

# 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

August 09, 2019

Dr Gulshan Yadav, MD, Consultant Pathology          Date

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