

**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: Not provided  
Medical Facility: Dr Lal Pathlabs  
Pathologist: Dr Atul Thatai

**Patient Demographic**

**Name:** Raj Bala  
**Sex:** Female  
**Date of Birth/Age:** 52 years  
**Disease:** Liver Adenocarcinoma

**Specimen**

**Site:** Liver  
**Sample Type:** FFPE block 34995  
**Date of Collection:** 28-02-2020  
**Date of Booking:** 28-02-2020

# iMSI Rapid™ Assay

**Result****Microsatellite status - Stable****BIOMARKER FINDINGS**

<i>ACVR2A</i>	No mutation detected
<i>BTBD7</i>	No mutation detected
<i>DIDO1</i>	No mutation detected
<i>MRE11</i>	No mutation detected
<i>RYR3</i>	No mutation detected
<i>SEC13A</i>	No mutation detected
<i>SULF2</i>	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



February 29, 2020

Dr Gulshan Yadav, MD, Consultant Pathology

Date

**MolQ Laboratory (A Unit of Molecular Quest Healthcare Pvt. Ltd.)**

Reference Laboratory: 28-29, Sector-18 (P) | Gurgaon, Haryana, 122015 | Phone 0124 - 4307906, Fax 0124 - 4278596 | Email: contact@molq.in