

**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:** Gayatri Devi Jain  
**Sex:** Female  
**Date of Birth/Age:** 72 years  
**Disease:** Carcinoma Uterus with Lung metastasis

**Specimen**

**Site:** Mediastinal lymph nodes  
**Sample Type:** FFPE block S-3196/19  
**Date of Collection:** 29-04-2019  
**Date of Booking:** 30-04-2019

# 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



April 30, 2019

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Date