Example Report

ARUP Laboratories 500 Chipeta Way - Salt Lake City, UT 84108 (800)522-2787 - www.aruplab.com Julio C. Delgado, M.D. M.S., Director of Laboratories

Patient Age/Gender: Unknown Unknown Printed: 25-Jun-19 16:43:10

Procedure Result Units Ref Interval Accession Accession Collected Received Verified 19-176-900170 25-Jun-19 25-Jun-19 25-Jun-19 Positive MLH1 Promoter Methylation 16:00:00 16:24:00 16:25:17 19-176-900170 25-Jun-19 25-Jun-19 25-Jun-19 Block ID

16:00:00 16:24:00 16:25:17

25-Jun-19 16:00:00 MLH1PCR:

The tumor tested was identified and selected by a Board Certified AP/CP Pathologist. 25-Jun-19 16:00:00 MLH1 Promoter Methylation:

MLH1 promoter methylation was detected.

This result has been reviewed and approved by Anna Matynia, M.D.

25-Jun-19 16:00:00 MLH1 Promoter Methylation: TEST INFORMATION: MLH1 Promoter Methylation, Paraffin

MLH1 methylation is common in sporadic microsatellite unstable tumors, like colorectal cancer and endometrial cancer, and rarely occurs in Lynch syndrome (hereditary nonpolyposis colon cancer or HNPCC). Therefore, the presence of MLH1 methylation suggests that the tumor is sporadic and not associated with Lynch syndrome. However, since there have been rare reports of Lynch syndrome-associated MLH1 methylation, all results should be interpreted within the clinical context. The lack of MLH1 methylation in a mismatch repair deficient tumor suggests that it may be associated with Lynch syndrome, and germline evaluation is suggested. Finally, low level MLH1 methylation is not reported as positive, since it does not correlate with MLH1 inactivation and microsatellite instability.

METHODOLOGY: DNA is isolated from tumor tissue microdissected from prepared slides. DNA is treated with sodium bisulfite, followed by amplification of a segment of the MLH1 promoter region using methylation specific real-time PCR. The MLH1 methylation level is calculated by comparison to the amplification of a reference gene.

LIMITATIONS: Methylation at locations other than those covered by the primers and probes will not be detected. Results of this test must always be interpreted within the clinical context and other relevant data, and should not be used alone for a diagnosis of malignancy. This test is not intended to detect minimal residual disease.

ANALYTICAL SENSITIVITY: Methylation levels below 10 percent are reported as negative.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab

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