

LABORATORY REPORT

Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108 **EXAMPLE, REPORT W**

WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 09/18/2023 15:16 Received: 09/18/2023 15:16

<u>Test Name</u> <u>Result</u> <u>Flag Ref-Ranges</u> <u>Units</u> <u>Site</u>

MGMT Promoter Methylation Det by ddPCR

MGMT METH Result Detected AB ARRL

MGMT promoter methylation was detected.

This result has been reviewed and approved by Parisa Adelhardt, ${\tt M.D.}$

INTERPRETIVE INFORMATION: MGMT Promoter Methylation Detection by ddPCR

CHARACTERISTICS: This assay is designed to detect MGMT promoter methylation. MGMT promoter methylation status is a prognostic biomarker in patients with high-grade gliomas and is useful in treatment decisions. For specific treatment recommendations, please refer to NCCN Clinical Practice Guidelines in Oncology for Central Nervous System Cancers.

METHODOLOGY: Genomic DNA is isolated from microscopically-guided dissection of tumor tissue followed by bisulfite conversion. Two droplet digital PCR reactions with conversion-specific primers and differentially labeled probes complementary to methylated and unmethylated MGMT promoter sequence are performed. Methylation status of CpG sites 75-78 is evaluated in reaction 1 and of CpG sites 79-82 in reaction 2. Percent methylation for each reaction is calculated as a ratio of methylated to all amplifiable alleles. The average percent methylation of both reactions is used for qualitative calls and reported as follows: average percent methylation of 0 to less than 5 percent is reported as Not detected, 5 to less than 25 percent as Low level, and equal or more than 25 percent as Detected.

LIMITATIONS: Methylation at locations other than those listed above will not be detected.

ANALYTICAL SENSITIVITY: 5 percent methylation.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

MGMT METH Specimen Tissue ARRL Block ID ABC12-3456 DE ARRL

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, $\,$. - NOT TESTED

F318000013 WX0000003827 Printed D&T: 09/18/23 15:18 Ordered By: KAJAL SITWALA, MD, PhD WX00000000002365

Kajal V. Sitwala, MD, PhD - Medical Director Form: MM RL1 PAGE 1 OF 2



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Performed By: ARUP Laboratories

500 Chipeta Way

Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

CLIA Number: 46D0523979

Performing Site:

ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

Reported Date: 2023.09.18 15:18 PRMET

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, $\,$. - NOT TESTED

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