



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: 08/25/2023 15:44 Received: 08/25/2023 15:44

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: BRAF Mutation Analysis, BONE MARROW, AB, QCRL. Row 2: Specimen Source, N/A, QCRL. Row 3: Paraffin Block Number, DETECTED, AB, QCRL.

Reference Range:
NOT DETECTED

BRAF mutation, (c.1799T>A ( p.Val600Glu ), 15.1%), was detected.
Please see below for additional details.

BRAF mutations are common in melanoma, papillary thyroid cancer and in
a subset of endometrial cancer, colorectal and other GI tumors. Among
most of these tumors, the presence of an activating BRAF mutation is
generally associated with adverse clinical features and induce
resistance to anti-EGFR therapy in colorectal cancer. Tumors with some
BRAF mutations, particularly V600E, may respond to kinase inhibitors.

Extracted genomic DNA was subjected to Next-generation sequencing
(NGS) to screen for mutations in exons 6, 8, 11, 12, 14, 15, 17 of
BRAF. This includes codon V600 of BRAF. Coding sequence of BRAF from
NM\_004333.5 was used as reference sequence. For fixed tissue samples,
the area of tumor was grossly macrodissected prior to DNA extraction.
This assay will detect mutations that comprise approximately 5% of all
alleles within the analyzed area. Insertions up to 30bp and deletions
up to 48bp have been successfully detected by this assay.

This test was developed and its performance characteristics have been
determined by Quest Diagnostics Nichols Institute. This assay has been
validated pursuant to the CLIA regulations and is used for clinical
purposes.

Laboratory results and submitted clinical information reviewed by
xxx.

Test Performed at:
Quest Diagnostics Nichols Institute
33608 Ortega Highway
San Juan Capistrano, CA 92675-2042 I Maramica MD, PhD, MBA

Performing Site:
QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

Reported Date: 2023.08.25 15:44 BRAFD

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