



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: 09/11/2023 13:55 Received: 09/11/2023 13:55

Test Name Result Flag Ref-Ranges Units Site

Pain Management, CYP450 3A4/3A5 Genotype, Qual

Interpretation See Below QCRL

RESULT: INTERMEDIATE METABOLIZER FOR CYP3A5. EXTENSIVE (NORMAL) METABOLIZER FOR CYP3A4.

These results for CYP3A5 predict that this individual will display the intermediate metabolizer phenotype and may require alternate pain management drugs. Multiple drug therapies should be monitored closely.

These results for CYP3A4 predict that this individual will display the extensive (normal) metabolizer phenotype and can be treated with pain management drugs metabolized by CYP3A4 following standard dosing procedures.

It is possible that the individual has a rare variant in the CYP3A4 or CYP3A5 gene that is not examined by this assay.

Laboratory results and submitted clinical information reviewed by Masamichi Ito, Ph.D., FACMG, CGMS.

SUPPLEMENTAL INFORMATION:

The cytochrome P450 gene products are responsible for metabolizing a large number of widely prescribed pain management drugs. The P450 variants can alter enzymatic activity. Many pain management drugs become active once metabolized by CYP450. For proper interpretation of these results, it is important to understand the metabolism of the drug as well as multiple drug therapies. Please consult with a pharmacology expert.

VARIANTS TESTED: CYP3A4*1B (c.392A>G), CYP3A4*12 (c.1117C>T), CYP3A4*2 (c.664T>C), CYP3A4*17 (c.566T>C), CYP3A4*3 (c.1334T>C), CYP3A5*3 (g.6986A>G CYP3A4*11 (c.1088C>T)

METHODOLOGY:

The variants in this assay are detected by polymerase chain reaction (PCR) amplification of specific regions of the CYP3A4 and CYP3A5 genes, followed by a single nucleotide primer extension reaction. The fluorescent extension products are analyzed by capillary electrophoresis.

Although rare, false positive or false negative results may occur. All results should be interpreted in the context of clinical findings, relevant history, and other laboratory data. Health care

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



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providers may also contact your local Quest Diagnostics' genetic counselor or call 1-866-GENEINFO (866-436-3463) for assistance with the interpretation of these results.

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes. Reviewed and signed by Masamichi Ito, Ph.D., FACMG, CGMBS.

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

3A4 Genotype *1/*1 QCRL
3A5 Genotype *1/*3 QCRL

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

Reported Date: 2023.09.11 13:55 CP450

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