

Specimen Collected: 20-Dec-21 17:04

CYP2B6		Received: 21-Dec-21 07:19	Report/Verified: 21-Dec-21 08:52
Procedure	Result	Units	Reference Interval
2B6 Specimen	Whole Blood		
CYP2B6 Genotype	Negative		
CYP2B6 Phenotype	Normal		
2B6 Interpretation	See Note ^{f1 i1}		

Result Footnote

f1: 2B6 Interpretation

The following CYP2B6 alleles were detected: Neg/Neg. This result predicts the normal metabolizer phenotype.

Recommendation: Guidelines for gene-based dosing are published by the Clinical Pharmacogenetics Implementation Consortium (CPIC) and other organizations. See <https://www.pharmgkb.org>

This result has been reviewed and approved by Sherin Shaaban, M.D., Ph.D.

Test Information

i1: 2B6 Interpretation

BACKGROUND INFORMATION FOR CYP2B6:

CHARACTERISTICS: The cytochrome P450 (CYP) isozyme 2B6 is involved in the metabolism of many drugs. Variants in the gene that codes for CYP2B6 may influence pharmacokinetics of substrates and may predict or explain non-standard dose requirements, therapeutic failure, or adverse reactions.

Inheritance: Autosomal codominant

CAUSE: CYP2B6 gene variants affect enzyme function.

VARIANTS TESTED:

(Variants are numbered according to the following transcripts: CYP2B6 NM_000767).

Negative: No variants detected is predictive of the *1 functional alleles.

CYP2B6*4: rs2279343, c.785A>G

CYP2B6*6: rs3745274, c.516G>T; rs2279343, c.785A>G

CYP2B6*7: rs3745274, c.516G>T; rs2279343, c.785A>G; rs3211371, c.1459C>T

CYP2B6*9: rs3745274, c.516G>T

CYP2B6*18: rs28399499, c.983T>C

CYP2B6*22: rs34223104, c.-82T>C

CYP2B6*36: rs34223104, c.-82T>C; rs3745274, c.516G>T; rs2279343, c.785A>G

CLINICAL SENSITIVITY: Drug-dependent.

METHODOLOGY: Polymerase chain reaction (PCR) and fluorescence monitoring

ANALYTICAL SENSITIVITY AND SPECIFICITY: Greater than 99 percent

LIMITATIONS: Only the targeted CYP2B6 variants will be detected by this test, and assumptions about phase and content are made to assign alleles. Publicly available

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab

Unless otherwise indicated, testing performed at:**ARUP Laboratories**

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Tracy I. George, MD

ARUP Accession: 21-354-900145**Report Request ID:** 15067234**Printed:** 21-Dec-21 12:28

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Test Information

i1: 2B6 Interpretation

sources such as the www.pharmvar.org or www.pharmgkb.org provide guidance on phenotype predictions and allele frequencies. Diagnostic errors can occur due to rare sequence variations. Risk of therapeutic failure or adverse reactions with CYP2B6 substrates may be affected by genetic and non-genetic factors that are not detected by this test. This result does not replace the need for therapeutic drug or clinical monitoring.

Please note the information contained in this report does not contain medication recommendations and should not be interpreted as recommending any specific medications. Any dosage adjustments or other changes to medications should be evaluated in consultation with a medical provider.

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

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

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