

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** Unknown  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**CYP2B6**

ARUP test code 3004310

2B6 Specimen whole Blood

CYP2B6 Genotype \*1/\*6

CYP2B6 Phenotype **Intermediate \***

2B6 Interpretation

See Note

The following CYP2B6 alleles were detected: \*1/\*6. This result predicts the intermediate metabolizer phenotype.

Recommendation: Guidelines for genotype-based dosing are published by the Clinical Pharmacogenetics Implementation Consortium (CPIC) and can be found at: <https://cpicpgx.org/> and <https://www.pharmgkb.org/>.

This result has been reviewed and approved by [REDACTED]

H=High, L=Low, \*=Abnormal, C=Critical

**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).

\*1: Indicative of no detected targeted variants and an assumption of functional allele.

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 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.

EER CYP2B6

See Note

Authorized individuals can access the ARUP Enhanced Report using the following link:

[Redacted Link]

H=High, L=Low, \*=Abnormal, C=Critical

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
2B6 Specimen	23-316-101055	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
CYP2B6 Genotype	23-316-101055	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
CYP2B6 Phenotype	23-316-101055	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
2B6 Interpretation	23-316-101055	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER CYP2B6	23-316-101055	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 23-316-101055  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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