

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

Physician: Doctor, Example

Patient: Patient, Example

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

CYP3A4 and CYP3A5 ARUP test code 3001518	
3A4/3A5 Specimen	Whole Blood
CYP3A4 Genotype	*1/*1
CYP3A4 Phenotype	Normal
CYP3A5 Genotype	*1/*1
CYP3A5 Phenotype	Normal
3A4/3A5 Interpretation	See Note
	The following CYP3A4 allele(s) were detected:*1/*1. This result predicts the normal metabolizer phenotype.
	The following CYP3A5 allele(s) were detected: *1/*1. This result predicts the normal 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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2767 | aruptab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director



BACKGROUND INFORMATION: CYP3A4 and CYP3A5

CHARACTERISTICS: The cytochrome P450 (CYP) 3A subfamily of enzymes is involved in metabolism of many drugs. Variants in the genes that code for CYP3A4 and CYP3A5 may influence pharmacokinetics of CYP3A substrates, and may predict or explain non-standard dose requirements, therapeutic failure or adverse reactions. INHERITANCE: Autosomal codominant. CAUSE: CYP3A4 or CYP3A5 gene variants affect enzyme function. VARIANTS TESTED: (Variants are numbered according to NM_017460 transcript for CYP3A4 and NM_000777 transcript for CYP3A5) *1: Indicative of no detected targeted variants and an assumption of functional allele. CYP3A4*1A: rs2740574, c.-392G>A CYP3A4*22: rs35599367, c.522-191C>T CYP3A5*3: rs776746, c.219-237A>G CYP3A5*6: rs10264272, c.624G>A CYP3A5*7: rs41303343, c.1035dup CLINICAL SENSITIVITY: Drug-dependent. METHODOLOGY: Polymerase chain reaction (PCR) and fluorescence monitoring. ANALYTICAL SENSITIVITY AND SPECIFICITY: Greater than 99 percent. LIMITATIONS: Only the targeted CYP3A4 and CYP3A5 variants will be detected by this panel, 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 CYP3A 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 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 CYP3A4 CYP3A5

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

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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruptab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 23-324-114346 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 2 of 3 | Printed: 11/27/2023 2:40:10 PM 4848



VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
3A4/3A5 Specimen	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
CYP3A4 Genotype	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
CYP3A4 Phenotype	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
CYP3A5 Genotype	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
CYP3A5 Phenotype	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
3A4/3A5 Interpretation	23-324-114346	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
EER CYP3A4 CYP3A5	23-324-114346	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 | aruptab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 23-324-114346 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 3 of 3 | Printed: 11/27/2023 2:40:10 PM 4848