

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

Human Immunodeficiency Virus 1 Drug Resistance by Next Generation Sequencing

ARUP test code 3003853

HIV-1 Drug Resistance by NGS

See Note

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

Integrase Strand Transfer Inhibitor Drug Class
 Bictegravir, BIC Intermediate Resistance
 Cabotegravir, CAB Intermediate Resistance
 Dolutegravir, DTG Intermediate Resistance
 Elvitegravir, EVG Intermediate Resistance
 Raltegravir, RAL Low-Level Resistance

IN drug resistance mutations identified: R263K

IN accessory resistance mutations identified: A49G

IN additional mutations identified: S17N, L45I, M50I, K111R, I113V, S119R, T124A, T125A, V126L, V201I, K211R, I220V

Protease Inhibitor Drug Class
 Atazanavir, ATV Susceptible
 Darunavir, DRV Susceptible
 Fosamprenavir, FPV Susceptible
 Indinavir, IDV Susceptible
 Lopinavir, LPV Susceptible
 Nelfinavir, NFV Susceptible
 Saquinavir, SQV Susceptible
 Tipranavir, TPV Susceptible

PR drug resistance mutations identified: None

PR accessory resistance mutations identified: None

PR additional mutations identified: L63P, I64V, A71T, I72E, V77I, I93L

Nucleoside Reverse Transcriptase Inhibitor Drug Class
 Abacavir, ABC High-Level Resistance
 Zidovudine, AZT Susceptible
 Stavudine, D4T Low-Level Resistance
 Didanosine, DDI High-Level Resistance
 Emtricitabine, FTC High-Level Resistance
 Lamivudine, LMV High-Level Resistance
 Tenofovir, TDF Intermediate Resistance

NRTI drug resistance mutations identified: K65E, K70N, L74V, Y115F, M184V

Non-nucleoside Reverse Transcriptase Inhibitor Drug Class
 Doravirine, DOR Susceptible
 Efavirenz, EFV High-Level Resistance
 Etravirine, ETR Susceptible
 Nevirapine, NVP High-Level Resistance
 Rilpivirine, RPV Susceptible

NNRTI drug resistance mutations identified: K103N

RT accessory resistance mutations identified: None

RT additional mutations identified: E6K, K22R, V35I, K64R, K122E, I135L, I178M, T200A, Q207D, R211K, T286A, I293V, E297A, E297P, P313S, D324E, I329L, P345Q, F346Y, A360T, V365I, I375V, S379C, V381I, K390R, A400T

HIVGenotyper software version: 2.1.0.4

Stanford HIV Drug Resistance Database Version: HIVDB_9.4

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INTERPRETIVE INFORMATION: HIV-1 Drug Resistance by NGS

This assay predicts HIV-1 resistance to protease inhibitors, nucleoside reverse transcriptase inhibitors, non-nucleoside reverse transcriptase inhibitors and integrase inhibitors. The protease gene, integrase gene and the reverse transcriptase gene of the viral genome are sequenced using Next Generation Sequencing. Drug resistance is assigned using the Stanford hivdb database.

This test should be used in conjunction with clinical presentation and other laboratory markers. A patient's response to therapy depends on multiple factors, including patient adherence, percentage of resistant virus population, dosing, and drug pharmacology issues.

This test detects populations down to 10 percent of the total population which may account for resistance interpretation differences between methods. Some insertions or deletions may be difficult to detect using this software.

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

EER HIV-1 Drug Resistance by NGS

See Note

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

[REDACTED]

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
HIV-1 Drug Resistance by NGS	23-236-116356	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER HIV-1 Drug Resistance by NGS	23-236-116356	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: