

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 11/7/1988

Gender: Male

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 00/00/0000 00:00

Human Immunodeficiency Virus 1 (HIV-1) by Quantitative NAAT with Reflex to HIV-1 Drug Resistance by Next Generation Sequencing

ARUP test code 3000870

HIV-1 Ont by NAAT (copies/mL)

49600 cpy/mL

HIV-1 Qnt by NAAT (log copies/mL)

4.70 log cpy/mL

 $\ensuremath{\mathsf{HIV}}\xspace-1$ Drug Resistance by Next Generation Sequencing will be added.

HIV-1 Qnt by NAAT Interp

Detected

*

(Ref Interval: Not Detected)

INTERPRETIVE INFORMATION: HIV-1 by Quantitative NAAT, Plasma

The quantitative range of this assay is $1.30-7.00 \log copies/mL(20-10,000,000 copies/mL)$.

A result of "Not Detected" does not rule out the presence of inhibitors or HIV-1 RNA concentration below the level of detection of the test. Care should be taken in the interpretation of any single viral load determination.

This test is intended for use in conjunction with clinical presentation and other laboratory markers for the clinical management of HIV-1 infected patients. The test can be used to assess patient prognosis by measuring the baseline HIV-1 level or to monitor the effects of antiretroviral therapy by measuring changes in HIV-1 RNA levels during the course of antiretroviral treatment.

This assay should not be used for blood donor screening, associated reentry protocols, or for screening human cells, tissues, and cellular- or tissue-based products (HCT/P).

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

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Integrase Strand Transfer Inhibitor Drug Class
            Bictegravir, BIC
                                             Susceptible
            Cabotegravir, CAB
                                             Susceptible
            Dolutegravir,DTG
Elvitegravir,EVG
                                             Susceptible
                                             Susceptible
            Raltegravir, RAL
                                             Susceptible
            IN drug resistance mutations identified:
            IN accessory resistance mutations identified: None
IN additional mutations identified: S17N, L28I, V3 S39C, L101I, S119T, T124N, T125A, V201I, T206S, Y227F, S230N,
                                                                      V32I,
D256É
Protease Inhibitor Drug Class
Atazanavir,ATV
                                             Susceptible
            Darunavir, DRV
                                             Susceptible
                                             Susceptible
            Fosamprenavir, FPV
            Indinavir,IDV
Lopinavir,LPV
                                             Susceptible
                                             Susceptible
            Nelfinavir,NFV
Saquinavir,SQV
                                             Susceptible
                                             Susceptible
            Tipranavir, TPV
                                             Susceptible
            PR drug resistance mutations identified: None
            PR accessory resistance mutations identified: None
            PR additional mutations identified: D60E, I62V, I64V,
V77I, I93L
Nucleoside Reverse Transcriptase Inhibitor Drug Class
            Abacavir, ABC
                                             Susceptible
            Zidovudine, AZT
                                             Susceptible
            Stavudine, D4T
                                             Susceptible
            Didanosiné, DDI
                                             Susceptible
            Emtricitabine, FTC
                                             Susceptible
            Lamivudine, LMV
                                             Susceptible
            Tenofovir, TDF
                                             Susceptible
            NRTI drug resistance mutations identified: None
Non-nucleoside Reverse Transcriptase Inhibitor Drug Class
            Doravirine, DOR
                                             Susceptible
                                             Susceptible
            Efavirenz, ÉFV
            Etraviriné, ETR
                                             Susceptible
            Nevirapine, NVP
                                             Susceptible
            Rilpiviriné, RPV
                                             Suscentible
            NNRTI drug resistance mutations identified: None
            RT accessory resistance mutations identified: None
RT additional mutations identified: K20R, D123E, I135T, I178M, Q207K, R211N, V245E, E248D, A272P, V276I, V292I, I293V, Q334L, R356K, M357V, A376S, K390R, K395R, T397A, A400T,
V417T
HIVGenotyper software version: 2.1.1.0
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Stanford HIV Drug Resistance Database Version: HIVDB_9.6

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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:

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
HIV-1 Qnt by NAAT (copies/mL)	24-297-144678	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
HIV-1 Qnt by NAAT (log copies/mL)	24-297-144678	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
HIV-1 Qnt by NAAT Interp	24-297-144678	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
HIV-1 Drug Resistance by NGS	24-297-144678	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER HIV-1 Drug Resistance by NGS	24-297-144678	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

Patient: Patient, Example
ARUP Accession: 24-297-144678
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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