

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

Physician: Doctor, Example

### **Patient: Patient, Example**

DOB	4/26/1971
Gender:	Male
<b>Patient Identifiers:</b>	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
<b>Collection Date:</b>	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 Qnt by NAAT (copies/mL)	7,130 cpy/mL		
HIV-1 Qnt by NAAT (log copies/mL)	3.85 log cpy/mL		
	HIV-1 Drug Resistance by Next Generation Sequencing will be added.		
HIV-1 Qnt by NAAT Interp	<b>Detected * (Ref Interval: Not Detected)</b> INTERPRETIVE INFORMATION: HIV-1 by Quantitative NAAT, Plasma		
	Normal range for this assay is "Not Detected". The quantitative range of this assay is 1.47-7.00 log copies/mL (30-10,000,000 copies/mL).		
	An interpretation of "Not Detected" does not rule out the presence of inhibitors or HIV-1 RNA concentration below the level of detection of the assay. Care should be taken in the interpretation of any single viral load determination. The clinical significance of changes in HIV-1 RNA concentration has not been fully established; however, a change of 0.5 log copies/mL may be significant.		
	This assay should not be used for blood donor screening, associated re-entry protocols, or for screening Human Cell, Tissues and Cellular 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

Unless otherwise indicated, testing performed at:



Integrase	e Strand Transfer Inhibit Bictegravir,BIC Dolutegravir,DTG Elvitegravir,EVG Raltegravir,RAL	tor Drug Class Susceptible Susceptible Susceptible Susceptible
	IN drug resistance muta	ations identified: None
	IN accessory resistance	e mutations identified: None
V32I, M50 K211N, L2		5 identified: E10D, E11D, V 111R, I191D, G192W, V201I,
Protease	Inhibitor Drug Class Atazanavir,ATV Darunavir,DRV Fosamprenavir,FPV Indinavir,IDV Lopinavir,LPV Nelfinavir,NFV Saquinavir,SQV Tipranavir,TPV	Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible
	PR drug resistance muta	ations identified: None
	PR accessory resistance	e mutations identified: Non
I62V, L63	PR additional mutations T, T74S, V77I	s identified: G16E, R41K, R
Nucleosic	le Reverse Transcriptase Abacavir,ABC Zidovudine,AZT Stavudine,D4T Didanosine,DDI Emtricitabine,FTC Lamivudine,LMV Tenofovir,TDF	Inhibitor Drug Class Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible
	NRTI drug resistance mu	utations identified: None
Non-nucle	oside Reverse Transcript Doravirine,DOR Efavirenz,EFV Etravirine,ETR Nevirapine,NVP Rilpivirine,RPV	tase Inhibitor Drug Class Susceptible Susceptible Susceptible Susceptible Susceptible Susceptible
	NNRTI drug resistance r	nutations identified: None
	RT accessory resistance	e mutations identified: None
D123A, I1 Q334N, A3	RT additional mutations 35R, I178L, R211K, V2450 60T, A376T, K390R, E3990	s identified: v35T, K122P, D, v245A, E248T, A272P, T286, D, A400T, V435I
HTVGenoty	per software version: 1.	0.0.0

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

Unless otherwise indicated, testing performed at:

Patient: Patient, Example ARUP Accession: 23-088-119256 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 2 of 3 | Printed: 4/11/2023 2:19:25 PM 4848



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)	23-088-119256	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
HIV-1 Qnt by NAAT (log copies/mL)	23-088-119256	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
HIV-1 Qnt by NAAT Interp	23-088-119256	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
HIV-1 Drug Resistance by NGS	23-088-119256	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
EER HIV-1 Drug Resistance by NGS	23-088-119256	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	

#### END OF CHART

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Unless otherwise indicated, testing performed at: