

### **HIV PhenoSense GT**





ARUP Test Code: 0092399

Collection Date: 01/24/2025 Received in lab: 01/25/2025 Completion Date: 02/23/2025

#### **TEST INFORMATION**

Visit Number (FIN):

Test performed at Monogram Biosciences.

For clinical utility and more information on interpreting this report, please visit <a href="http://www.monogrambio.com/hiv/resistance-testing/combined-phenotypegenotype/phenosense-gt">http://www.monogrambio.com/hiv/resistance-testing/combined-phenotypegenotype/phenosense-gt</a>.

#### **PATIENT REPORT**

Patient's results from Monogram Biosciences continue on following page(s).









# PhenoSense GT®

Referring Physician

Combination HIV-1 Drug Resistance Assay

500 Chipeta Way Attn: Referrals MC 233 Salt Lake City, UT 84108 USA



Weidong Huang, MD, Medical Director 345 Oyster Point Blvd South San Francisco, CA 94080 - Tel: (800) 777-0177

DOB Patient ID/Medical Record # Gender Monogram Accession # Date Collected 24-JAN-2025 12:30 Date Reported 17-FEB-2025 11:47 PT Date Received Mode Report Status 28-JAN-2025 09:41 PT F,W,X FINAL

Phone: (800)242-2787

Reference Lab ID/Order # 25-024-115283

Project: Fax: (801)584-5132

	100			25 524 115255	
Co	mments			HIV-1 Subtype: B	
		DRUG		PHENOSENSETM SUSCEPTIBILITY Susceptibility Net Assessi	nent
	Generic Name	Brand Name	Cutoffs (Lower - Upper)	Fold Increasing Drug Susceptibility Decreasing Change 1 10 100 Pheno Gene Sense Seq	
	Abacavir	Ziagen	(4.5 - 6.5)	1.69 Y Y Sensitive	
	Didanosine	Videx	(1.3 - 2.2)	1.00 Y P Partially Sensitive	1
NRTI	Emtricitabine	Emtriva	(3.5)	N N Resistant	
	Lamivudine	Epivir	(3.5)	75 N N Resistant	
	Stavudine	Zerit	(1.7)	0.29 Y Y Sensitive	3
	Zidovudine	Retrovir	(1.9)	0.15 Y Y Sensitive	3
	Tenofovir	Viread	(1.4 - 4)	0.37 Y Sensitive	3
	NRTI Mutations		M184M/V		
	Delavirdine	Rescriptor	(6.2)	12 N N Resistant	
	Doravirine	Pifeltro	(3)	0.60 Y Y Sensitive	
NRTI	Efavirenz	Sustiva	(3)	4.94 N N Resistant	
	Etravirine	Intelence	(2.9 - 10)	0.59 Y Y Sensitive	
ź	Nevirapine	Viramune	(4.5)	13 N N Resistant	
	Rilpivirine	Edurant	(2)	0.54 Y Y Sensitive	

Tipranavir	Aptivus / r*	(2 - 8)	1.00		<b>)</b>	4		Y	Υ	Sensitive
Saquinavir	Invirase / r#	(2.3 - 12)	0.94	- 1	H	4		Y	Υ	Sensitive
Ritonavir	Norvir	(2.5)	1.07		Þ	35		Y	Υ	Sensitive
Nelfinavir	Viracept	(3.6)	1.34					Y	Υ	Sensitive
Lopinavir	Kaletra#	(9 - 55)	0.65			Þ	4	Y	Υ	Sensitive
Indinavir	Crixivan / r‡	(10)	0.83			Þ		Υ	Υ	Sensitive
Fosamprenavir	Lexiva / r‡	(4 - 11)	0.83		<b>&gt;</b>	4		Y	Υ	Sensitive
Darunavir	Prezista / r‡	(10 - 90)	0.80			Þ	4	Υ	Υ	Sensitive
Atazanavir	Reyataz / r*	(5.2)	0.80		▶			Υ	Υ	Sensitive

Lower Clinical Cutoff (in bold) Upper Clinical Cutoff (in bold)
| Biological Cutoff

NNRTI Mutations

Hypersusceptibility Cutoff

V90I, K103N

Sensitive Partially Sensitive Resistant

Y Evidence of Drug Sensitivity
P Evidence of Partial Drug Sensitivity
N Evidence of Drug Resistance

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Patient: ARUP Accession: 25-024-115283

# PhenoSense GT®

Patient Name:

Combination HIV-1 Drug Resistance Assay

ARUP 500 Chipeta Way Attn: Referrals MC 233 Salt Lake City, UT 84108 USA



Status:

FINAL

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Monogram Acc#:

Project:

Fax: (801)584-5132

Patie	nt-Spe	ecific R	esults								
Drugs	ABC	ddl	FTC	3TC	d4T	ZDV	TFV	DLV	DOR	EFV	ETR
IC50(µM)	2.77	3.88	24.39	129.08	0.22	0.005	0.267	0.4766	0.00261	0.0269	0.001528
Drugs	NVP	RPV	ATV	DRV	AMP	IDV	LPV	NFV	RTV	SQV	TPV
IC50(µM)	1.063	0.0005	0.00282	0.000294	0.004	0.0046	0.0019	0.0076	0.0139	0.0026	0.041

Phone: (800)242-2787

	Combination Phenotype/Genotype Net Assessment								
	SE	NSITIVE	PARTIALLY SENSITIVE	RESISTANT					
NRTI	Abacavir Tenofovir	Stavudine Zidovudine	Didanosine	Emtricitabine	Lamivudine				
NNRTI	Doravirine Rilpivirine	Etravirine		Delavirdine Nevirapine	Efavirenz				
Ы	Atazanavir / r Fosamprenavir / r Lopinavir / r Ritonavir Tipranavir / r	Darunavir / r Indinavir / r Nelfinavir Saquinavir / r							

### **Complete List of Mutations Detected**

RT: V60I, V90I, A98S, Q102K, K103N, K122E, D123E, I135V, C162S, Q174R, M184M/V, G196E, T200A, R211K, I244I/V, V245V/M, D250D/E, R277K, T286A

PR: L19T, R41K, L63P, V77I, I93L

### Phenotype / Genotype Comments (clinical significance may vary)

- 1 Mixture: Mixtures detected at resistance-associated position(s); minor populations with decreased susceptibility may be present and may increase in the presence of drug pressure.
- presence of drug pressure.

  3 IC50 reduced: Phenotypic measurement reflects possible enhanced susceptibility due to M184I or V.

Date Collected:

24-JAN-2025 12:30









