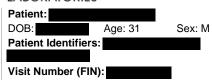


# Human Immunodeficiency Virus Type 1 (HIV-1) PhenoSense





ARUP Test Code: 3000882

Collection Date: 05/25/2023 Received in lab: 05/27/2023 Completion Date: 07/10/2023

#### **TEST INFORMATION**

Test performed at Labcorp Monogram Biosciences, 345 Oyster Point Blvd., South San Francisco, CA 94080

#### **PATIENT REPORT**

Patient's results continue on following page(s).









## PhenoSense®

HIV-1 Drug Resistance Assay

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

Client: Project: Phone: (800) 242-2787 Fax: (801) 584-5132

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



	DRUG		PHENOSENSE™ SUSCEPTIBILITY	ASSESSMENT			
Generic Name	Brand Name	Cutoffs (Lower - Upper)	Fold Increasing Drug Susceptibility Decreasing	Drug			
Abacavir	Ziagen	(4.5 - 6.5)	1.77	ABC	Sensitive		
Didanosine	Videx	(1.3 - 2.2)	1.23	ddl	Sensitive		
Emtricitabine	Emtriva	(3.5)	3.10	FTC	Sensitive		
Lamivudine	Epivir	(3.5)	3.16	зтс	Sensitive		
Stavudine	Zerit	(1.7)	0.69	d4T	Sensitive		
Tenofovir	Viread	(1.4 - 4)	0.66	TFV	Sensitive		
Zidovudine	Retrovir	(1.9)	0.68	ZDV	Sensitive		

Delavirdine	Rescriptor	(6.2)	7.57	ı	×	DLV	Resistant
Doravirine	Pifeltro	(3)	0.80	D		DOR	Sensitive
Efavirenz	Sustiva	(3)	3.98	D		EFV	Resistant
Etravirine	Intelence	(2.9 - 10)	1.31	<b>b</b>	4	ETR	Sensitive
Nevirapine	Viramune	(4.5)	4.59	₽	2	NVP	Resistant
Rilpivirine	Edurant	(2)	1.02	Ы		RPV	Sensitive

Atazanavir	Reyataz / r‡	(5.2)	0.52		Þ		ATV/r	Sensitive	
Darunavir	Prezista / r‡	(10 - 90)	0.34		•	4	DRV/r	Sensitive	
Fosamprenavir	Lexiva / r‡	(4 - 11)	0.19		M M	•	AMP/r	Sensitive	
Indinavir	Crixivan / r‡	(10)	0.39		· •		IDV/r	Sensitive	
Lopinavir	Kaletra #	(9 - 55)	0.39		<b>•</b>	4	LPV/r	Sensitive	
Nelfinavir	Viracept	(3.6)	0.61			0.10	NFV	Sensitive	
Ritonavir	Norvir	(2.5)	0.59				RTV	Sensitive	
Saquinavir	Invirase / r‡	(2.3 - 12)	0.57	<b>□</b> →	4		SQV/r	Sensitive	
Tipranavir	Aptivus / r*	(2 - 8)	0.56	<b> </b>	4		TPV/r	Sensitive	
Lower Clinical Cuto Upper Clinical Cuto			10 10 10 10 10 10 10 10 10 10 10 10 10 1	Hypersuscepti	oility		☐ Sensitive		

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Patient: ARUP Accession: 23-145-400533

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Resistance

## PhenoSense®

HIV-1 Drug Resistance Assay

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

Client: Phone: (800) 242-2787

Project Fax: (801) 584-5132

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

Patient Name: Date Collected: Monogram Acc#: Status: 25-MAY-2023 09:38 FINAL

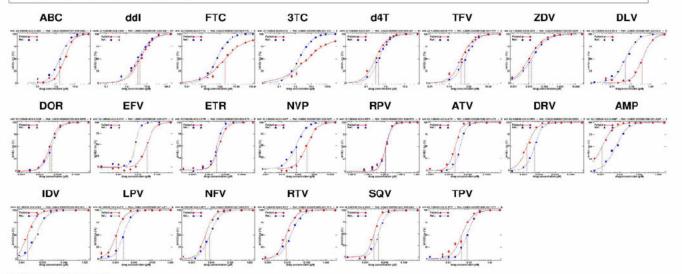
### **Important Definitions**

IC50: Concentration of drug required to inhibit viral replication by 50%.

Fold Change = IC50 patient IC50 reference

Clinical Cutoffs: Lower clinical cutoff denotes the fold change which was the best discriminator of reduced clinical response using drug- specific clinical outcome data. Reduced response was defined by the clinical endpoint for the specific clinical cohort analyzed for each cutoff value. Upper clinical cutoff denotes the fold change above which a clinical response is unlikely (<0.5 log reduction in HIV RNA). Biological cutoffs are used for specific antiretrovirals (ZDV, the NNRTIs and specific protease inhibitors when not pharmacokinetically enhanced with ritonavir). These values are defined as the fold change value below which reside 99% of tested wild-type isolates, i.e., those without known drug resistance mutations. Fold Change <0.4 indicates enhanced susceptibility. The cut-off for FTC was established by bridging in vitro susceptibility data, biological cut-off determinations and data derived from other NRTI clinical trials performed in NRTI-experienced patients.

\* Boosted PIs: Clinical cutoff and genotypic interpretation algorithms for ritonavir-boosted protease inhibitors derived from individual studies using the following dosages: AMP/r 600mg/100mg BID; ATV/r 300mg/100mg QD; DRV/r 600mg/100mg BID; IDV/r 800mg/200mg BID; LPV/r 400mg/100mg BID; SQV/r 1000mg/100mg BID; and TPV/r 500mg/200mg BID.



Patient-s	pecific	Res	ult	8																		
Drugs	ABC	ddl	FT	СЗТС	d4T	TFV	ZDV	DLV	/ DOR	EFV	ETR	NVP	RPV	ATV	DRV	AMP	IDV	LPV	NFV	RTV	SQV	TPV
IC50 (μM)	2.68	4.56	1.9	75.56	0.3	0.41	0.01	0.371	7 0.00354	0.0288	0.004055	0.343	0.001172	0.00209	0.000172	0.0012	0.0019	0.001	0.0052	0.0085	0.0027	0.0445
Fold Change	1.77	1.23	3.1	03.16	0.69	0.66	0.68	7.57	0.80	3.98	1.31	4.59	1.02	0.52	0.34	0.19	0.39	0.39	0.61	0.59	0.57	0.56

Comments: Replication capacity cannot be reported on this sample because results did not meet assay acceptance criteria.

For more information on interpreting this report, please visit monogrambio.labcorp.com or call Customer Service at 800-777-0177 between the hours of 6:30am to 5:00pm PT Monday through Friday.

PhenoSense HIV is a proprietary, recombinant virus, single replication cycle assay which uses the protease (amino acids 1-99 plus p7/p1/p6 gag cleavage sites) and reverse transcriptase (amino acids 1-305) coding regions of HIV-1 from a patient blood sample to evaluate drug susceptibility. This test is validated for testing specimens with HIV-1 viral loads equal to or above 500 copies/mL and should be interpreted only on such specimens. This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration. Monogram Biosciences, Inc. is a subsidiary of Labcoratory Corporation of America Holdings, using the brand Labcorp. The results should not be used as the sole criteria for patient management. This document contains private and confidential health information protected by state and federal law. If you have received this document in error, please call 800-777-0177.

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Patient: ARUP Accession: 23-145-400533