



## Samuel H. Pepkowitz, MD, Medical Director 345 Oyster Point Blvd South San Francisco, CA 94080 - Tel: (800) 777-0177

atient Name		DOB	Patient ID/Medical Record #	Gender	Monogram Access	ion #
ate Collected		Date Received	Date Reported	Mode	Report Status	
eferring Physician				Reference La	b ID/Order #	
omments				HIV-1 Subt	vpe: B	
Dr	ua	Ger	ioSure®MG		essment*	Commen
Generic Name	Brand Name		ssociated Mutations Detected	Drug		
Abacavir	Ziagen	None		ABC	Sensitive	
Didanosine	Videx	None		dcll	Sensitive	
Emtricitabine	Emtriva	None		FTC	Sensitive	
Z Lamivudine	Epivir	None		зтс	Sensitive	
Stavudine	Zerit	None		d4T	Sensitive	
Tenofovir	Viread	None		TFV	Sensitive	
Zidovudine	Retrovir	None		ZDV	Sensitive	
Efavirenz	Sustiva	K103N		EFV	Resistant	
Etravirine	Intelence	None		ETR	Sensitive	
Nevirapine	Viramune	K103N		NVP	Resistant	
Rilpivirine	Edurant	K103N		RPV	Sensitive	
	Reyataz	A71V		ATV	Sensitive	
Atazanavir	Reyataz / r‡	A71V		ATV/r	Sensitive	
Darunavir	Prezista / r‡	V11I		DRV/r	Sensitive	
Fosamprenavir	· Lexiva / r‡	V11I		AMP/r	Sensitive	
Indinavir	Crixivan / r‡	A71V		IDV/r	Sensitive	
Lopinavir	Kaletra‡	A71V		LPV/r	Sensitive	
Nelfinavir	Viracept	A71V		NFV	Sensitive	
Ritonavir	Norvir	A71V		RTV	Sensitive	
Saquinavir	Invirase / r+	A71V		SQV/r	Sensitive	
Tipranavir	Aptivus / r‡	A71V		TPV/r	Sensitive	





## Samuel H. Pepkowitz, MD, Medical Director 345 Oyster Point Blvd

South San Francisco, CA 94080 - Tel: (800) 777-0177

Patient Name	DOB	Patient ID/Medical Record #	Gender	Monogram Accession #
Date Collected	Date Received	Date Reported	Mode	Report Status

\* Assessment of drug susceptibility is based upon detected mutations and interpreted using an advanced proprietary algorithm (version 16).

+ Interpretation algorithms for ritonavir-boosted protease inhibitors appropriate for the following dosages: AMP/r 600mg/100mg BID; ATV/r 300mg/100mg QD; IDV/r

800mg/200mg BID; LPV/r 400mg/100mg BID; SQV/r 1000mg/100mg BID; TPV/r 500mg/200mg BID; and DRV/r 600mg/100mg BID.

\* Mixtures are indicated by amino acids separated by a slash. Deletions in the amino acid sequence are indicated by a ^ symbol.

## **Summary of Mutations Observed**

RT K13R, Q102K, K103N, I142T, C162S, Q197E, R211K, A272S, V276I, R277K, V292I, E297V, I326V, A327V, Y339F, P345Q, M357I, K358R, T377V, V381I, T386I, A400T

**PR** V11I, I64V, K70R, A71V, I72E, V77I, I93L

Assay Performance Characteristics
<ul> <li>Assay is highly reproducible and sufficiently sensitive to allow testing of patient samples with viral loads as low as 500 copies/mL.</li> </ul>
<ul> <li>Detects <i>mixtures</i> of wild-type and drug-resistant viruses when present at levels as low as 10% of the total population.</li> </ul>
<ul> <li>Uses Monogram's HIV genotyping algorithm, which is based on a large database of <i>over 100,000</i> matched HIV genotype-phenotype results and is reviewed and updated on a regular basis.</li> </ul>
• <b>Includes HIV-1 subtype</b> which provides information that can be important for long-term drug treatment strategy and genotype interpretation.

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

This assay is performed using a next-generation sequencing platform that analyzes the protease (amino acids 1-99) and reverse transcriptase (amino acids 1-400) coding regions in HIV-1. Variants are reported at a sensitivity that has been demonstrated to be equivalent to that of Sanger/population sequencing. This assay meets the standards for performance characteristics and all other quality control and assurance requirements established by the Clinical Laboratory Improvement Amendments. 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. The results should not be used as the sole criteria for patient management. The results have been disclosed to you from confidential records protected by law and are not to be disclosed to unauthorized persons. Further disclosure of these results is prohibited without specific consent of the persons to whom it pertains, or as permitted by law.