



British Columbia  
Centre for Excellence  
in HIV/AIDS

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## Resistance Analysis of HIV-1 Protease and Reverse Transcriptase

Patient/Sample Details		Test Details		Physician Details	
Name:	CJC	Sample ID:	63436C-DRT	MAZZULLI	
Patient ID:	15Y0032803	Sample Date:	28-Apr-2015	MAZZULLI	
Secondary ID:		Study ID:	DRT		
Birthdate:	21-Apr-1958	Report Date:	27-May-2015		
		Clade:	B		

NRTI/NtRTI Drugs	Fold Change <sup>1</sup>	Cut-off <sup>2</sup>		Resistance Analysis <sup>3</sup>
Zidovudine (Retrovir)	1.2	1.5	11.4	SUSCEPTIBLE
Lamivudine (Epivir)	47.2	2.1	4.6	RESISTANT
Didanosine (Videx)	1.2	0.9	2.6	REDUCED RESPONSE
Stavudine (Zerit)	0.8	1.0	2.3	SUSCEPTIBLE
Abacavir (Ziagen)	1.5	0.9	3.5	REDUCED RESPONSE
Emtricitabine (Emtriva)	39.8	3.1		RESISTANT
Tenofovir DF (Viread)	0.7	1.0	2.3	SUSCEPTIBLE
<b>NRTI/NtRTI Mutations<sup>4</sup>: 70wt/R, 184V</b>				

NNRTI Drugs	Fold Change <sup>1</sup>	Cut-off <sup>2</sup>		Resistance Analysis <sup>3</sup>
Nevirapine (Viramune)	43.1	6.0		RESISTANT
Efavirenz (Sustiva, Stocrin)	27.0	3.3		RESISTANT
Etravirine (Intelence)	0.9	3.2	27.6	SUSCEPTIBLE
Rilpivirine (Endurant)	1.0	3.1		SUSCEPTIBLE
<b>NNRTI Mutations<sup>4</sup>: 103N</b>				

PI Drugs	Fold Change <sup>1</sup>	Cut-off <sup>2</sup>		Resistance Analysis <sup>3</sup>
Indinavir/r (Crixivan)	0.9	2.3	27.2	SUSCEPTIBLE
Nelfinavir (Viracept)	1.2	2.2	9.4	SUSCEPTIBLE
Saquinavir/r (Invirase)	0.7	3.1	22.6	SUSCEPTIBLE
Fosamprenavir/r (Lexiva, Telzir)	0.8	1.5	19.5	SUSCEPTIBLE
Lopinavir/r (Kaletra)	0.8	6.1	51.2	SUSCEPTIBLE
Atazanavir/r (Reyataz)	0.7	2.5	32.5	SUSCEPTIBLE
Tipranavir/r (Aptivus)	0.8	1.5	7.0	SUSCEPTIBLE
Darunavir/r (Prezista)	0.6	10.0	106.9	SUSCEPTIBLE
<b>PI Mutations<sup>4</sup>: 10I</b>				

This nucleic acid amplification, sequence-based test was developed and its performance characteristics determined by the BCCFE Research Laboratory. US Clients only: This test does not require premarket review by the US Food and Drug Administration and has not been approved by the FDA. The laboratory is certified under CLIA '88 to perform high complexity clinical laboratory testing. This test is used for clinical purposes.

1. Predicted Fold Change in 50% Inhibitory Concentration (IC50), relative to susceptible reference virus based on a large database of genotypes and phenotypes (Version CFE-5.0).
2. Cut-off values for maximal and minimal clinical response (Clinical Cut-Off) or for normal susceptibility range in vitro (Biological Cut-Off). Biological Cut-Offs are printed in Italic.
3. Resistance Analysis based on the magnitude of the Fold Change relative to the Clinical or the Biological Cut-Offs.
4. Mutations indicated are those reported on public lists (ANRS, Stanford, IAS-USA) or by drug development sponsors.

For more information on these results and their interpretation, or to suggest how to improve this report please contact the lab at (800) 517-1119 or email [prharrigan@cfe.net.ubc.ca](mailto:prharrigan@cfe.net.ubc.ca)